

Iowa
304.6021
.N27711
1968

Print
362.41
U.S. Dept. of H.E.W.
The Model Reporting Area for
Blindness, Statistics, 1968

DATE DUE

Print
362.41
U.S. Dept. of H.E.W.
The Model Reporting Area for
Blindness. Statistics, 1968

PROPERTY OF
IOWA STATE COMMISSION
FOR THE BLIND

STATISTICS ON BLINDNESS IN THE MODEL REPORTING AREA

1968

Prepared under the Supervision of

Paul H. Anderson, Ph. D.

Head, Section on Blindness Statistics
Office of Biometry and Epidemiology
National Eye Institute

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 · Price $.65

Contents

	Page
List of tables	iv & v
Description of MRA	1
Definitions for interpreting data presented	2
Zero entries in tables	3
Figures not adding to totals	3
Per 100,000 figures omitted from tables	4
Number of persons added to registers in 1968	4
Probability of being added to a register in 1968	4
Visual capabilities of additions	4
When blinded versus when added to register	4
Additions coded for affections and their causes	5
Affections which blinded additions	5
Causes of affections in additions	5
Most frequent affections in additions and their most frequent causes	5
Most frequent affections in additions by period of life	5
Number in registers per 100,000 population	6
Visual capabilities in registers	6
Total blindness in additions versus in registers	6
Trend in register data, 1962–68	6
Blindness incidence/prevalence not same as register incidence/prevalence	6
Previous statistical reports on blindness in MRA	6

List of Tables

Registers of Blind Persons by State: 1967 Versus 1968

Table number	Table title	Page
1a	Additions to register, removals from it and population in it by state: 1967	7
1b	Additions to register, removals from it and population in it by state: 1968	8

Additions to Registers of Blind Persons: 1968

Table number	Table title	Page
2a	Additions to registers by age and color/sex: 1968	9
2b	Additions to registers per 100,000 population by age and color/sex: 1968	10
3a	Additions to registers by color/sex and state: 1968	11
3b	Additions to registers per 100,000 population by color/sex and state: 1968	12
4a	Additions to registers by age and state: 1968	13
4b	Additions to registers per 100,000 population by age and state: 1968	14
5a	Additions to registers by visual acuity and state: 1968	15
5b	Visual-acuity group as percent of total additions by state: 1968	16
6a	Additions to registers by visual acuity and color/sex: 1968	17
6b	Visual-acuity group as percent of total additions by color/sex group: 1968	18
7a	Additions to registers by visual acuity and age: 1968	19
7b	Visual-acuity group as percent of total additions by age group: 1968	20
8a	Additions to registers by age when blinded and state: 1968	21
8b	Age-when-blinded group as percent of total additions by state: 1968	22
9a	Additions to registers by eye examiner discipline and state: 1968	23
9b	Eye-examiner-discipline group as percent of total additions by state: 1968	24
10a	Additions to registers by eye examiner discipline and visual acuity: 1968	25
10b	Visual-acuity group as percent of total additions by eye-examiner-discipline group: 1968	26
11a	Additions to registers by affection and state: 1968	27
11b	Affection group as percent of total additions by state: 1968	28
12a	Additions to registers by affection and color/sex: 1968	29
12b	Affection group as percent of total additions by color/sex group: 1968	30
13a	Additions to registers by affection and age: 1968	31
13b	Affection group as percent of total additions by age group: 1968	32
14a	Additions to registers by affection and visual acuity: 1968	33
14b	Visual-acuity group as percent of total additions by affection group: 1968	34
15a	Additions to registers by etiology and state: 1968	35
15b	Etiology group as percent of total additions by state: 1968	36
16a	Additions to registers by etiology and color/sex: 1968	37
16b	Etiology group as percent of total additions by color/sex group: 1968	38

Table number	Table title	Page
17a	Additions to registers by etiology and age: 1968	39
17b	Etiology group as percent of total additions by age group: 1968	40
18a	Additions to registers by etiology and visual acuity: 1968	41
18b	Visual-acuity group as percent of total additions by etiology group: 1968	42
19a	Additions to registers by etiology and affection: 1968	43
19b	Percent of total additions to registers by etiology group and affection group: 1968	44
20a	Additions to registers by etiology and multiple affection: 1968	45
20b	Percent of total additions to registers by etiology group and multiple affection group: 1968	46
	Removals From Registers of Blind Persons: 1968	
21a	Removals from registers by removal reason and state: 1968	47
21b	Removal-reason group as percent of total removals by state: 1968	48
	Population in Registers of Blind Persons: December 31, 1968	
22a	Population in registers by age and color/sex: December 31, 1968	49
22b	Number of persons in registers per 100,000 population by age and color/sex: December 31, 1968	50
23a	Population in registers by color/sex and state: December 31, 1968	51
23b	Number of persons in registers per 100,000 population by color/sex and state: December 31, 1968	52
24a	Population in registers by age and state: December 31, 1968	53
24b	Number of persons in register per 100,000 population by age and state: December 31, 1968	54
25a	Population in registers by visual acuity and state: December 31, 1968	55
25b	Visual-acuity group as percent of total in register by state: December 31, 1968	56
26a	Population in registers by visual acuity and color/sex: December 31, 1968	57
26b	Visual-acuity group as percent of total in registers by color/sex group: December 31, 1968	58
27a	Population in registers by visual acuity and age: December 31, 1968	59
27b	Visual-acuity group as percent of total in registers by age group: December 31, 1968	60
	Registers of Blind Persons by State: 1962–68	
28	Additions to register per 100,000 population by state: 1962–68	61
29	Number of persons in register per 100,000 population by state: December 31, 1962–68	62
	MRA's Estimated Population: 1968	
30a1	MRA's estimated population in thousands by age and color/sex, excluding the population of New York State: 1968	63
30a2	MRA's estimated population in thousands by age and color/sex, including the population of New York State: 1968	64
30b	MRA's estimated population in thousands by color/sex and state: 1968	65
30c	MRA's estimated population in thousands by age and state: 1968	66

Description of MRA

As of 1968, the Model Reporting Area (MRA) for Blindness Statistics was a voluntary association of 16 States,* each maintaining its register of blind persons in a prescribed way. The data presented in this report were taken from the records in these registers** on December 31, 1968 and the records removed from them during 1968.

MRA registers are alike with respect to definition of blindness, updating procedure, content of eye examination report, and system for classifying vision impairing affections and their etiologies.

Designation of blindness for purposes of addition to the MRA registers requires that the better seeing eye have a distance vision of 20/200 or less when aided by the best spectacle correction using ordinary lenses, or a visual field of 20 degrees or less at the widest point. This is the so-called legal definition of blindness which legally qualifies a person to obtain a variety of services and benefits from State and federal government agencies, including medical and refractive care for eyes, financial assistance if needy, vocational rehabilitation, tax benefits, home teaching, and talking books.

*Connecticut, Georgia, Kansas, Louisiana, Massachusetts, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Oregon, Rhode Island, South Dakota, Utah, Vermont, Virginia.

**New York data are included only in Tables of Population in Registers.

A registered person's record must show sex, race, birth date, age when blinded, eye examination date, whether an addition or a readdition, date added to register, date removed from register, removal reason, eye examiner's discipline, distance visual capability, affection which impaired vision, affection's etiology, county of residence, and register or Social Security number.

Current information is entered into register records each year and records are removed from the register upon death, departure from the State, vision recovery, inability to locate the registered person, finding duplicate records, or discovery of additions resulting from administrative error.

An eye examination report to the register indicates history of eye condition; distance and near vision in each eye without correction and with best correction with ordinary lenses; field of vision in each eye; pressure in each eye; causes of blindness or severe visual impairment in each eye including present ocular condition, preceding ocular condition, and etiology of the ocular condition primarily responsible for vision impairment; expectations concerning patient's vision, viz. stable, deteriorating, capable of improvement, or uncertain; and recommended treatment, suggested reexamination dates, and other clinical recommendations.

Vision-impairing affections are classified with a three-digit code which identifies the affection's type and site within the visual system. These sites are named and described in the Section on Definitions.

The causes of affections are classified with a four-digit code which identifies the infectious disease, injury or poisoning, tumor, condition occurring before birth, or other disease which produced the affection.

No one is excluded from an MRA register because of race, creed, color, national origin, or because he or she will not require services from the welfare agency which maintains the register.

Although the extent of incomplete registration of blind persons is not known, directors of State agencies which provide services to the blind believe that up to 40 percent of a State's blind population may not be registered due to undetected blindness, refusal of registration by some blind persons, or failure of eye examiners to report blind persons for registration.

Established in 1962, MRA was planned by the National Institute of Neurological Diseases and Blindness (NINDB), the National Society for the Prevention of Blindness, the American Foundation for the Blind, and the Division of Chronic Diseases, U.S. Public Health Service. MRA was managed by NINDB until 1969 when it was transferred to the National Eye Institute, created in 1968.

The blind are reported to registers by eye examiners, eye clinics, hospitals, homes for the aged, and nursing homes. In some cases they are reported by themselves or friends.

State laws are the legal bases for MRA registers. In most States the law requires that a register be established. The law may specifically relieve eye examiners and others from legal liability for violating confidentiality by reporting blind persons to the register,

and may make it mandatory to report blind persons to the register. There is usually no penalty for not reporting.

MRA is operated under policies established by an advisory group, which is comprised of three rotating and three permanent members. A rotating member serves for three years and is selected from an MRA member State. Permanent members serve as long as they retain their position in their organization. The American Foundation for the Blind, the National Society for the Prevention of Blindness, and the National Eye Institute each have a permanent member in this advisory group.

MRA registers are useful for preparation of statistics, for finding cases to be studied in research on eye diseases, and for management of government programs which assist the blind.

Definitions for interpreting data presented

Visual acuity is the ability to discern detail and is expressed as a fraction. The numerator represents the distance in feet from which letters of a specified size can be read and the denominator is the distance in feet from which the same letters subtend a 5-minute angle (a minute is 1/60 of a degree, which is 1/360 of a complete revolution).

Distance vision is measured in each eye with and without corrective lenses. It is usually measured with a chart 20 feet from the eye. Elements (lines or curves) of standard letters on these charts have a specified thickness or width and configuration.

The smallest letters a normal eye can read from 20 feet subtend a 5-minute angle horizontally and vertically from that distance, and the elements of these letters subtend a one-minute angle from that distance. Those with better than normal vision can read smaller letters from 20 feet while those with less than normal can read only the larger letters.

Individuals with normal or 100 percent efficient distance vision can read from a distance of 20 feet letters that subtend a 5-minute angle from that distance. For this reason, normal vision is represented by the fraction 20/20.

A person with a 10/200 distance vision can only read from 10 feet letters that subtend a 5-minute angle from 200 feet.

A person with a 5/200 distance vision can only read from 5 feet letters that subtend a 5-minute angle from 200 feet.

Distance vision for the blind is classified in this report into nine groups:

Visual acuity group	*Visual ability*
Absolute blindness	No light perception. Total visual loss or no visual capability.
Light perception only	Light can be perceived but the direction of the light source cannot be identified.
Light projection only	Light can be perceived and direction of light source identified.
Less than 5/200.....	Motion or form can be perceived. Fingers can be counted from less than 3 feet.
5/200 to less than 10/200	Fingers can be counted from 3 feet to less than 10 feet.
10/200 to less than 20/200	
20/200	Minimum visual loss or maximum visual capability to be classified blind.
Blindness due to a restricted visual field.	A visual field restricted to 20 degrees or less at its widest point is classified as blindness regardless of the level of central visual acuity. The visual field is the area in which a test object can be seen while the position of the eye is fixed.
Unknown	Vision is classified as blindness on the basis of clinical impression when the examiner cannot determine precisely the extent of visual acuity or visual fields.

Vision is reduced to blindness by failure of one or more sites within the visual system. The names of these sites and their descriptions are presented in the table which follows.

Site name	*Site description*
Cornea.....	The transparent front window of the eye which permits light to enter. The cornea is largely responsible for the focusing power of the eye.
Aqueous humor....	The transparent fluid between the cornea and the lens.
Iris.....	A pigmented tissue lying behind the cornea and in front of the lens. It has a central aperture, the pupil, the size of which is controlled by small muscles.
Pupil.....	An aperture in the center of the iris permitting light to enter the eye's interior. The hole becomes smaller as light intensity increases and larger as light diminishes.
Lens.....	A solid biconvex crystalline structure which focuses light. Change in the shape and refracting power of the lens results from action of the ciliary muscle. This mechanism provides fine focal adjustment for viewing distant or near objects.
Ciliary body.....	An annular structure at the base of the iris. It produces aqueous humor. A muscular portion controls fine adjustment in the optical power of the lens.

Site name	*Site description*
Vitreous humor	A transparent gel-like fluid which fills the back of the eye between lens and retina.
Retina	The photoreceptive interior lining of the eye which receives the focused light image and converts it to electrical impulses which are sent to the brain.
Choroid	The middle lining of the eye containing blood vessels which nourish the retina.
Sclera	The "white of the eye." The tough white outer cover of the eye.
Uvea	A collective term used to designate the iris, choroid, and ciliary body.
Optic nerve	Nerve which carries visual information from the retina to the brain.
Visual pathway	Includes the retina, optic nerve and structures within the brain which transmit information which is perceived as vision.
Visual cortex	The terminal portion of the visual pathway located in the occipital lobe of the brain.
Oculomotor centers	Portions of the brain stem which trigger messages to those muscles which move the eyes in various directions.

An affection is a disorder within the visual system responsible for blindness.

Affections are identified in this report by site, as listed in the preceding table, and type.

Affection types include abnormal smallness, abnormal largeness, absence, degeneration, inflammation, detachment, displacement, focusing error, or shrunken condition.

Affections of the eyeball include glaucoma (associated with excessive pressure within eyeball) and myopia (a refractive error in the eye which makes it unable to see distant objects clearly).

An inflammation is generally designated by adding the suffix "itis" to the structure involved. For example, iritis is inflammation of the iris, scleritis is an inflammation of the sclera.

Retrolental fibroplasia is an affection of the retina resulting from excessive oxygen administered to certain premature infants to save their lives.

The retina's periphery and its macula, the central part which discriminates fine detail as required for reading, degenerate commonly in association with aging.

In retinal detachment, the retina is separated from the choroid, thereby eliminating a necessary source of nourishment to the retina. When this nourishment is lost, the retina is unable to function properly.

Retinitis pigmentosa is an inherited progressive deterioration of the retina involving the pigmented cells in the retinal outer layer.

Optic atrophy is a wasting-away of the optic nerve. This can result from many causes including inflammations and degenerations. When a portion or all of the optic nerve becomes atrophied the involved fibres lose their ability to transmit impulses and vision is lost.

In this report, "etiology" is defined as the basic cause of the affection which produces blindness. In some cases the cause is unknown to science while in others it is not reported or determined. The causes of blinding affections include infection; neoplasm (tumor); anemia (blood deficient in quantity or quality); processes associated with aging, nutritional deficiency, kidney disease; and diseases which are vascular (obstruction of blood circulation), neural (obstruction of nerve impulses), psychogenic (of emotional or psychologic origin rather than organic), hereditary, or congenital (existing at and usually before birth).

The eye examiner disciplines are classified in this report as ophthalmologist (M.D.), ear-nose-and-throat specialist (M.D.), other medical doctor (M.D.), doctor of optometry (O.D.), other, and unknown.

Ophthalmologists are medical doctors specializing in diagnosis and treatment of eye diseases and abnormal conditions including refractive errors. They attempt to remedy these conditions with drugs, lenses, other treatment, or surgery.

Optometrists detect vision problems, some eye diseases, or other abnormalities; prescribe and adapt conventional spectacles, contact lenses, and telescopic and microscopic spectacles; and in some cases preserve or restore vision with visual training aids. They do not prescribe drugs, diagnose or treat eye diseases, or perform surgery.

The registered blind are divided into two racial groups, white and nonwhite. The nonwhite group includes Negro, American Indian, Japanese, Chinese, Filipino, Korean, Asian Indian and Malayan. Mexicans not definitely Indian or other nonwhite race are classified as white.

Zero entries in tables

No person in a group, no person per 100,000 population, or no person as a percent of a total or a subtotal is indicated in a table by 0.

Less than .05 percent is rounded to 0.0.

Less than .05 per 100,000 is rounded to 0.0.

Figures not adding to totals

Some percent figures do not add to totals due to rounding.

Population figures expressed in thousands do not add to totals in some cases due to rounding.

Per 100,000 figures omitted from tables

Per 100,000 figures were not computed if there were less than 25,000 people in a group, if age was unknown in more than 10 percent of the registered blind in a State, or if color was unknown in more than 10 percent of registered blind in a State or age group.

Numbers of persons added to registers in 1968

The tables in this report which show additions to registers do not include the additions to New York State's register. However, the people in New York's register as of December 31, 1968 are included in the tables which show the number in the registers at the end of the year.

A total of 7,334 people was added to the MRA registers of 15 States, not including New York. This total included 7,028 new additions, and 306 readditions.

The 7,028 new additions included 6,270 additions examined by ophthalmologists (M.D.), or by eye-ear-nose-and-throat (EENT) specialists (M.D.), and 758 new additions examined by other medical or nonmedical disciplines.

The 758 new additions examined by eye examiners other than ophthalmologists or EENT specialists were not classified by affections or the etiologies of the affections. Only the 6,270 additions examined by an ophthalmologist or by an EENT specialist were classified in this way.

Consequently, there are only 6,270 additions in the tables containing data on affections and/or etiologies of additions.

Probability of being added to a register in 1968

Additions to registers per 100,000 population represent the probability of being added to an MRA register in 1968. This probability is a function of the person's age, color, and sex.

An old person was many times more likely to be added than a young one because much blindness results from processes associated with aging.

A nonwhite person was almost twice as likely to be added as a white person.

A female was more likely to be added than a male.

A person's probability of being added to a register in 1968 is less than the probability of being blinded in 1968. It is estimated that up to 40 percent of the number blinded in 1968 were not added to the State registry.

Visual capabilities of additions

Visual capability was determined in 93 percent of the additions and not determined in 7 percent.

Eighty-seven percent of the additions to registers in 1968 were considered blind because of loss of distance vision and 6 percent because of loss of visual fields.

Loss of visual fields resulted most frequently from glaucoma and second most frequently from retinal degeneration.

Six percent of the additions had no visual capability because they were totally blind.

Vision was classified as "light perception" or "light projection" in 10 percent of the additions. These had practically no useful vision.

Vision was better than "light projection" to "less than 5/200" in 15 percent of the additions. These had at most very little useful vision.

Vision was 5/200 to less than 20/200 in 28 percent of the additions. Their vision ranged from very little useful to substantially useful.

Vision was 20/200 or substantially useful in 28 percent of the additions. There were more additions with this level of vision than with any other specific level.

Visual acuity was not specified for 6 percent of the additions who were classified blind due to a restricted visual field and for 7 percent of the additions whose visual acuity could not be determined.

"When blinded" versus "when added" to register

Persons added to MRA registers in 1968 became blind during 1968 or before. Hence, their age when they became blind was less than or equal to their age when registered.

When a person became blind is difficult to determine. This was not determined in 37 percent of additions and there is reason to suspect a substantial amount of error in this figure among those for whom it was reported.

"Age when added to register" could not be determined for 5 percent of total additions in 1968.

Eleven percent of additions were blind at birth.

Twelve percent of additions became blind between birth and age 45.

Additions became blind most frequently between ages 45–64 and least frequently under age 20 and over age 84.

Despite the very high incidence rate of blindness in ages after 84, only 3 percent of additions became blind in this period of life because less than ½ percent of our population is older than 84.

Additions coded for affections and their causes

Affections and their causes were coded for 6,270 additions who were examined by ophthalmologists or eye-ear-nose-and-throat specialists.

Affections and their causes were not coded for 295 additions examined by other M.D.'s, for 463 additions examined by other medical or unknown disciplines, and for 306 readditions to registers.

Affections which blinded additions

Those added to registers were blinded most frequently by diseases of the retina, the eye's photoreceptive lining on which light rays are focused. Retinal diseases were reported in a higher proportion of white additions than nonwhites. One retinal disorder, retrolental fibroplasia (RLF), a significant cause of blindness in the 1950's, declined in incidence during the 1960's. In the period from 1963 through 1968, RLF blinded about one percent of the additions to MRA registers in each of these years. It still has serious consequences for society because its victims become blind while very young and at least 25 percent of them are totally blind.

The second most frequent affection in additions was cataract, a clouding or loss in transparency of the lens. Cataract produces visual loss by preventing light rays from reaching the retina. Cataract caused more blindness in female additions than in males.

Glaucoma was the third most frequent affection in additions. It was responsible more than any other affection for restricted visual fields. Glaucoma blinded a higher percentage of old persons than the young, and a higher percent of nonwhites than whites.

Atrophy of the optic nerve, which carries visual images from the retina to the brain's visual center, occurred more often in males than in females.

Causes of affections in additions

Etiology was "not reported or determined," or "unknown to science," in 30 percent of additions to registers in 1968.

Processes associated with aging were the most frequent, conditions occurring before birth were second, and diabetes was third among the etiologies responsible for the addition of blind persons to MRA registries.

Most frequent affections in additions and their most frequent causes

Retinal disorders, the most frequent affection in additions to registers in 1968, occurred primarily from aging, diabetes, and prenatal influence.

Cataract, the second most frequent affection in additions, resulted largely from aging and prenatal influence.

Glaucoma, the third most frequent affection, is a condition for which the cause is unknown to science.

Most frequent affections in additions by period of life

In various periods of their lives, additions to registers in 1968 were blinded most frequently by the following affections:

At birth

Transparency loss in lens or cornea
Abnormally small eyes
Absence of one or both eyes
Defective optic nerve

Between birth and under age 20

Choroidal and retinal degeneration
Degenerative nearsightedness
Excessive oxygen administered to premature infants
Optic nerve diseases

Age 20–39

Conditions occurring during birth or before
Choroidal and retinal degeneration
Degenerative nearsightedness
Retinal disease associated with diabetes
Optic nerve diseases

Age 40–59

Retinal disease resulting from diabetes
Transparency loss in lens (cataract)
Excessively high pressure in eyeball (glaucoma)
Choroidal and retinal degeneration
Degenerative nearsightedness

Age 60 and over

Degeneration of retinal area responsible for sharp vision (macula)

Transparency loss in lens (cataract)
Excessively high pressure in eyeball (glaucoma)
Retinal disease associated with diabetes

Number in registers per 100,000 population

There were 93,341 persons in MRA registers on December 31, 1968 representing 153.8 persons for each 100,000 population in MRA States.

The proportion of the MRA population in the blindness registers was similar for males and females. The proportions were lowest for both sexes in ages less than 5, and increased sharply with age after 5. To age 74 a higher proportion of males were in registers than females; however, after 74 the proportion was higher for females. The proportion for ages 85 and over (3,353.3 per 100,000) was 22 times the proportion for all ages (153.8 per 100,000).

The proportion for nonwhites was 1.9 times the proportion for whites.

Visual capabilities in registers

The most frequent visual capability of those in registers on December 31, 1968 was 20/200.

Registered nonwhites had less visual capability than registered whites.

Registered males had about the same visual capability as registered females.

Total blindness in additions versus in registers

Eleven percent of those in registers December 31, 1968 were totally blind, but only 6 percent of additions to registers in 1968 were totally blind. Total blindness was more frequent in registers than in additions for one or more of three probable reasons. First, the partially blind become totally blind while in registers. Second, improvements in medical care have reduced the occurrence of total blindness. Third, the totally blind may be added to registers at a younger age than the partially blind.

Trend in register data, 1962–68

The proportion of the total population in MRA States that was in registers declined steadily in the period from 1962 through 1967. However, this proportion increased in 1968.

The increase in MRA's register prevalence rate in 1968 resulted from the additon of New York to the MRA in that year. New York's register prevalence rate of 162.1 per 100,000 represented 29,478 of the 93,341 persons in 16 MRA State registers as of December 31, 1968.

Since New York is not included in the tables showing additions to registers, the addition of New York to the MRA did not produce the increase in MRA's register incidence rate which occurred in 1968.

Blindness incidence/prevalence not same as register incidence/prevalence

It is important to note that the register population differs from the blind population, register additions differ from additions to the blind population, and register removals differ from removals from the blind population. These quantities differ both in composition and size, but the differences in size and composition are both unknown.

For the following reasons, a state's blindness incidence for 1968 differed by an unknown magnitude from the additions to its register. It is often difficult or impossible to determine in what year a person became blind. A person did not necessarily become blind in the year that the blindness was detected or the year in which it was reported to the register. A blind person migrating to a State in 1968 and reported to its blindness register *then is a register incidence case for 1968 but not a blindness incidence case.* Sighted persons erroneously added to a blindness register represent pseudoblindness incidence.

Register prevalence was different from blindness prevalence because some blind persons were not in the register for various previously cited reasons, and some of the persons in the register should not have been in it, and should have been removed for various reasons cited earlier.

Previous statistical reports on blindness in MRA

A statistical report similar to this one has een published for each year since 1962.

Free copies of these reports are obtainable from Section on Blindness Statistics, Office of Biometry and Epidemiology, National Eye Institute, National Institutes of Health, Bethesda, Maryland 20014.

Table 1a.—Additions to Register, Removals from it, and Population in it by State: 1967

State	Additions		Removals	Population in register at year-end	
	Number	Rate [1]	Number	Number	Rate [1]
MRA total	6,337	15.1	5,787	61,548	146.4
Connecticut	431	14.8	313	3,522	120.7
Georgia	553	12.3	306	5,312	118.3
Kansas	386	16.9	654	3,031	132.9
Louisiana	631	17.2	436	6,306	172.2
Massachusetts	1,045	19.2	608	10,120	186.2
New Hampshire	141	20.4	95	1,096	158.6
New Jersey	422	6.0	283	7,441	106.6
New Mexico	80	8.0	49	2,561	255.6
North Carolina	1,187	23.5	1,056	10,514	207.8
Oregon	375	18.9	287	2,577	130.1
Rhode Island	132	14.7	72	1,146	127.2
South Dakota	71	10.6	92	899	134.6
Utah	155	15.2	105	1,300	127.2
Vermont	94	22.4	70	719	171.2
Virginia	634	14.0	1,361	5,004	110.2

[1] Number per 100,000 population.

Table 1b.—Additions to Register, Removals from it, and Population in it by State: 1968

State	Additions		Removals	Population in register at year-end	
	Number	Rate [1]	Number	Number	Rate [1]
MRA total	7,334	17.2	5,050	93,341	153.8
Connecticut	360	12.2	359	3,523	119.0
Georgia	574	12.5	382	5,504	120.2
Kansas	337	14.7	413	2,955	129.0
Louisiana	572	15.4	431	6,446	173.7
Massachusetts	1,144	21.0	567	10,754	197.8
New Hampshire	105	14.9	80	1,122	159.6
New Jersey	1,190	16.8	435	8,186	115.8
New Mexico	149	15.0	172	2,540	255.5
New York	(2)	(2)	(2)	29,478	162.1
North Carolina	1,326	25.8	1,246	10,595	206.5
Oregon	394	19.7	282	2,671	133.3
Rhode Island	144	15.9	162	1,128	124.2
South Dakota	86	12.9	87	898	135.0
Utah	148	14.4	94	1,354	131.3
Vermont	86	20.0	78	727	169.5
Virginia	719	15.6	262	5,460	118.6

[1] Number per 100,000 population.
[2] Not available.

Table 2a.—Additions to Registers by Age and Color/Sex: 1968

Color/sex group	Age group								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	[1] 7,334	185	751	915	1,977	1,073	1,345	715	373
Male	3,398	103	419	537	993	450	531	213	152
Female	3,936	82	332	378	984	623	814	502	221
White	5,011	114	488	617	1,212	785	1,078	588	129
Male	2,327	61	272	383	634	327	420	171	59
Female	2,684	53	216	234	578	458	658	417	70
Nonwhite	1,527	40	143	253	640	210	153	71	17
Male	699	24	77	127	292	92	60	21	6
Female	828	16	66	126	348	118	93	50	11
Unknown color	796	31	120	45	125	78	114	56	227
Male	372	18	70	27	67	31	51	21	87
Female	424	13	50	18	58	47	63	35	140

[1] Includes 7,028 new additions and 306 readditions.

Table 2b.—Additions to Registers per 100,000 Population by Age and Color/Sex: 1968

Color/sex group	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	17.2	3.8	6.4	6.6	23.7	43.5	130.0	335.7
Male	16.3	4.2	7.0	7.9	24.6	40.1	121.2	266.3
Female	18.2	3.4	5.7	5.4	22.9	46.3	136.3	377.4
White	(**)	(**)	(**)	5.1	16.4	35.5	114.7	307.9
Male	(**)	(**)	(**)	6.5	17.6	32.6	106.6	240.8
Female	(**)	(**)	(**)	3.8	15.2	37.9	120.7	347.5
Nonwhite	(**)	(**)	(**)	14.1	68.3	82.0	161.1	(—)
Male	(**)	(**)	(**)	15.0	65.5	78.0	139.5	(—)
Female	(**)	(**)	(**)	13.3	70.9	85.5	178.8	(—)

—Not computed because the estimated total population of MRA States in 1968 was less than 25,000 for this age and color/sex group.
**Not computed because color was unknown for more than 10 percent of total additions in this group.

Table 3a.—Additions to Registers by Color/Sex and State: 1968

State	Color/sex group											
	MRA total			White			Nonwhite			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	[1] 7,334	3,398	3,936	5,011	2,327	2,684	1,527	699	828	796	372	424
Connecticut	360	178	182	323	154	169	20	11	9	17	13	4
Georgia	574	300	274	226	133	93	224	93	131	124	74	50
Kansas	337	150	187	302	134	168	29	14	15	6	2	4
Louisiana	572	298	274	297	161	136	248	127	121	27	10	17
Massachusetts	1,144	451	693	775	306	469	44	17	27	325	128	197
New Hampshire	105	51	54	105	51	54	0	0	0	0	0	0
New Jersey	1,190	562	628	803	369	434	177	90	87	210	103	107
New Mexico	149	80	69	135	72	63	13	8	5	1	0	1
North Carolina	1,326	598	728	784	371	413	541	226	315	1	1	0
Oregon	394	169	225	375	157	218	7	3	4	12	9	3
Rhode Island	144	73	71	137	69	68	6	4	2	1	0	1
South Dakota	86	35	51	73	30	43	8	4	4	5	1	4
Utah	148	67	81	148	67	81	0	0	0	0	0	0
Vermont	86	41	45	84	39	45	2	2	0	0	0	0
Virginia	719	345	374	444	214	230	208	100	108	67	31	36

[1] Includes 7,028 new additions and 306 readditions.

Table 3b.—Additions to Registers per 100,000 Population by Color/Sex and State: 1968

State	Color/sex group								
	MRA total			White			Nonwhite		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	17.2	16.3	18.2	(**)	(**)	(**)	(**)	(**)	(**)
Connecticut	12.2	12.3	12.1	11.4	11.1	11.7	15.4	17.2	13.6
Georgia	12.5	13.4	11.7	(**)	(**)	(**)	(**)	(**)	(**)
Kansas	14.7	13.2	16.2	13.8	12.4	15.3	27.6	26.4	28.3
Louisiana	15.4	16.4	14.5	11.8	13.0	10.6	20.8	22.2	19.5
Massachusetts	21.0	17.2	24.6	(**)	(**)	(**)	(**)	(**)	(**)
New Hampshire	14.9	14.8	15.1	15.0	14.8	15.2	(—)	(—)	(—)
New Jersey	16.8	16.2	17.4	(**)	(**)	(**)	(**)	(**)	(**)
New Mexico	15.0	16.0	14.0	14.8	15.6	13.9	16.5	20.5	12.5
North Carolina	25.8	23.6	28.0	20.5	19.6	21.4	41.5	35.7	47.0
Oregon	19.7	17.0	22.3	19.1	16.1	22.1	16.7	(—)	(—)
Rhode Island	15.9	16.4	15.4	15.5	15.9	15.0	(—)	(—)	(—)
South Dakota	12.9	10.4	15.5	11.4	9.3	13.7	29.6	(—)	(—)
Utah	14.4	13.0	15.7	14.6	13.3	16.0	(—)	(—)	(—)
Vermont	20.0	19.4	20.6	19.6	18.5	20.6	(—)	(—)	(—)
Virginia	15.6	15.0	16.2	12.2	11.7	12.6	21.7	21.1	22.4

—Not computed because the State had less than 25,000 such people, including sighted and blind persons.
**Not computed because color was unknown for more than 10 percent of total additions to the State register.

Table 4a.—Additions to Registers by Age and State: 1968

State	Age group								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	[1]7,334	185	751	915	1,977	1,073	1,345	715	373
Connecticut	360	14	63	46	57	55	77	47	1
Georgia	574	1	39	110	316	44	37	12	15
Kansas	337	7	22	43	72	56	78	53	6
Louisiana	572	25	72	77	230	68	49	25	26
Massachusetts	1,144	20	79	81	220	178	252	142	172
New Hampshire	105	6	8	15	21	12	22	4	17
New Jersey	1,190	53	147	167	324	162	187	100	50
New Mexico	149	2	7	13	32	24	37	29	5
North Carolina	1,326	19	121	156	354	249	278	147	2
Oregon	394	14	39	38	73	63	116	46	5
Rhode Island	144	4	13	14	37	27	28	18	3
South Dakota	86	1	6	9	15	9	25	18	3
Utah	148	3	15	13	19	27	46	24	1
Vermont	86	4	8	12	16	14	25	7	0
Virginia	719	12	112	121	191	85	88	43	67

[1] Includes 7,028 new additions and 306 readditions.

Table 4b.—Additions to Registers per 100,000 Population by Age and State: 1968

State	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	17.2	3.8	6.4	6.6	23.7	43.5	130.0	335.7
Connecticut	12.2	4.3	8.4	4.7	9.1	28.9	100.0	(—)
Georgia	12.5	.2	2.8	7.4	38.2	19.5	39.8	(—)
Kansas	14.7	2.7	3.6	6.0	15.9	35.7	100.0	(—)
Louisiana	15.4	5.2	6.4	6.7	34.1	37.0	64.5	(—)
Massachusetts	21.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)
New Hampshire	14.9	(*)	(*)	(*)	(*)	(*)	(*)	(*)
New Jersey	16.8	7.1	8.4	7.0	21.0	36.1	109.4	303.0
New Mexico	15.0	1.4	2.2	3.9	21.3	64.9	(—)	(—)
North Carolina	25.8	3.2	7.7	9.2	39.0	105.1	289.6	(—)
Oregon	19.7	6.7	7.0	6.3	17.2	46.0	193.3	(—)
Rhode Island	15.9	4.2	5.7	4.7	19.1	42.9	107.7	(—)
South Dakota	12.9	1.2	3.1	4.7	11.7	19.6	(—)	(—)
Utah	14.4	2.1	4.6	4.0	11.5	58.7	(—)	(—)
Vermont	20.0	8.3	6.6	9.6	18.6	46.7	(—)	(—)
Virginia	15.6	2.3	8.5	7.6	23.0	38.3	93.6	(—)

—Not computed because there were less than 25,000 such people in the State, including sighted and blind persons.
*Not computed because age was unknown for more than 10 percent of total additions to the state register.

Table 5a.—Additions to Registers by Visual Acuity and State: 1968

State	Total	Visual acuity group								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	[1]7,334	433	689	71	1,087	787	1,284	2,059	417	507
Connecticut	360	17	44	5	49	42	69	99	12	23
Georgia	574	54	59	6	100	40	81	149	50	35
Kansas	337	26	43	5	46	21	35	126	13	22
Louisiana	572	42	47	23	99	14	114	155	48	30
Massachusetts	1,144	44	83	12	161	162	295	322	49	16
New Hampshire	105	7	12	1	22	3	18	36	4	2
New Jersey	1,190	67	121	4	152	183	189	293	59	122
New Mexico	149	15	28	2	13	19	27	33	2	10
North Carolina	1,326	61	122	0	215	110	200	376	90	152
Oregon	394	25	28	0	71	44	66	120	28	12
Rhode Island	144	9	14	2	24	24	27	36	2	6
South Dakota	86	6	3	1	6	9	9	10	3	39
Utah	148	6	12	1	17	17	30	54	7	4
Vermont	86	2	4	1	18	7	14	33	6	1
Virginia	719	52	69	8	94	92	110	217	44	33

[1] Includes 7,028 new additions and 306 readditions.

Table 5b.—Visual Acuity Group as Percent of Total Additions by State: 1968

[Details may not add to totals due to rounding]

State	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	5.9	9.4	1.0	14.8	10.7	17.5	28.1	5.7	6.9
Connecticut	100.0	4.7	12.2	1.4	13.6	11.7	19.2	27.5	3.3	6.4
Georgia	100.0	9.4	10.3	1.0	17.4	7.0	14.1	26.0	8.7	6.1
Kansas	100.0	7.7	12.8	1.5	13.6	6.2	10.4	37.4	3.9	6.5
Louisiana	100.0	7.3	8.2	4.0	17.3	2.4	19.9	27.1	8.4	5.2
Massachusetts	100.0	3.8	7.3	1.0	14.1	14.2	25.8	28.1	4.3	1.4
New Hampshire	100.0	6.7	11.4	1.0	21.0	2.9	17.1	34.3	3.8	1.9
New Jersey	100.0	5.6	10.2	.3	12.8	15.4	15.9	24.6	5.0	10.3
New Mexico	100.0	10.1	18.8	1.3	8.7	12.8	18.1	22.1	1.3	6.7
North Carolina	100.0	4.6	9.2	0	16.2	8.3	15.1	28.4	6.8	11.5
Oregon	100.0	6.3	7.1	0	18.0	11.2	16.8	30.5	7 1	3.0
Rhode Island	100.0	6.2	9.7	1.4	16.7	16.7	18.7	25.0	1.4	4.2
South Dakota	100.0	7.0	3.5	1.2	7.0	10.5	10.5	11.6	3.5	45.3
Utah	100.0	4.1	8.1	.7	11.5	11.5	20.3	36.5	4.7	2.7
Vermont	100.0	2.3	4.7	1.2	20.9	8.1	16.3	38.4	7.0	1.2
Virginia	100.0	7.2	9.6	1.1	13.1	12.8	15.3	30.2	6.1	4.6

Table 6a.—Additions to Registers by Visual Acuity and Color/Sex: 1968

Color/sex group	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	[1] 7,334	433	689	71	1,087	787	1,284	2,059	417	507
Male	3,398	229	315	30	504	357	554	925	225	259
Female	3,936	204	374	41	583	430	730	1,134	192	248
White	5,011	266	458	44	727	550	894	1,488	254	330
Male	2,327	142	215	21	347	239	378	670	148	167
Female	2,684	124	243	23	380	311	516	818	106	163
Nonwhite	1,527	124	174	21	260	136	210	370	132	100
Male	699	67	75	6	110	70	94	161	66	50
Female	828	57	99	15	150	66	116	209	66	50
Unknown color	796	43	57	6	100	101	180	201	31	77
Male	372	20	25	3	47	48	82	94	11	42
Female	424	23	32	3	53	53	98	107	20	35

[1] Includes 7,028 new additions and 306 readditions.

Table 6b.—Visual Acuity Group as Percent of Total Additions by Color/Sex Group: 1968

[Details may not add to totals due to rounding]

Color/sex group	Total	Visual acuity group								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	5.9	9.4	1.0	14.8	10.7	17.5	28.1	5.7	6.9
Male	100.0	6.7	9.3	.9	14.8	10.5	16.3	27.2	6.6	7.6
Female	100.0	5.2	9.5	1.0	14.8	10.9	18.5	28.8	4.9	6.3
White	100.0	5.3	9.1	.9	14.5	11.0	17.8	29.7	5.1	6.6
Male	100.0	6.1	9.2	.9	14.9	10.3	16.2	28.8	6.4	7.2
Female	100.0	4.6	9.1	.9	14.2	11.6	19.2	30.5	3.9	6.1
Nonwhite	100.0	8.1	11.4	1.4	17.0	8.9	13.8	24.2	8.6	6.5
Male	100.0	9.6	10.7	.9	15.7	10.0	13.4	23.0	9.4	7.2
Female	100.0	6.9	12.0	1.8	18.1	8.0	14.0	25.2	8.0	6.0
Unknown color	100.0	5.4	7.2	.8	12.6	12.7	22.6	25.3	3.9	9.7
Male	100.0	5.4	6.7	.8	12.6	12.9	22.0	25.3	3.0	11.3
Female	100.0	5.4	7.5	.7	12.5	12.5	23.1	25.2	4.7	8.3

Table 7a.—Additions to Registers by Visual Acuity and Age: 1968

Age group	Total	Visual acuity group								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	[1]7,334	433	689	71	1,087	787	1,284	2,059	417	507
Under 5	185	25	33	2	14	6	6	11	0	88
5–19	751	45	47	3	69	42	111	334	24	76
20–44	915	77	86	5	121	89	144	277	81	35
45–64	1,977	97	209	23	331	197	317	527	181	95
65–74	1,073	68	92	10	173	136	217	262	59	56
75–84	1,345	72	117	12	204	164	275	377	45	79
85 and over	715	30	83	12	129	109	120	167	9	56
Unknown	373	19	22	4	46	44	94	104	18	22

[1] Includes 7,028 new additions and 306 readditions.

Table 7b.—Visual Acuity Group as Percent of Total Additions by Age Group: 1968

[Details may not add to totals due to rounding]

Age group	Total	Visual acuity group								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	5.9	9.4	1.0	14.8	10.7	17.5	28.1	5.7	6.9
Under 5	100.0	13.5	17.8	1.1	7.6	3.2	3.2	5.9	0	47.6
5–19	100.0	6.0	6.3	.4	9.2	5.6	14.8	44.5	3.2	10.1
20–44	100.0	8.4	9.4	.5	13.2	9.7	15.7	30.3	8.9	3.8
45–64	100.0	4.9	10.6	1.2	16.7	10.0	16.0	26.7	9.2	4.8
65–74	100.0	6.3	8.6	.9	16.1	12.7	20.2	24.4	5.5	5.2
75–84	100.0	5.4	8.7	.9	15.2	12.2	20.4	28.0	3.3	5.9
85 and over	100.0	4.2	11.6	1.7	18.0	15.2	16.8	23.4	1.3	7.8
Unknown	100.0	5.1	5.9	1.1	12.3	11.8	25.2	27.9	4.8	5.9

Table 8a.—Additions to Registers by Age When Blinded and State: 1968

State	Age when blinded group									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	[1]7,028	740	108	206	544	1,223	752	696	174	2,585
Connecticut	349	64	13	16	40	52	61	66	19	18
Georgia	561	25	5	5	25	46	1	0	0	454
Kansas	304	22	5	7	33	69	43	53	24	48
Louisiana	537	104	15	8	63	171	52	32	9	83
Massachusetts	1,134	23	3	9	10	20	26	13	3	1,027
New Hampshire	104	13	2	2	1	6	7	3	0	70
New Jersey	1,160	150	28	40	139	218	113	80	12	380
New Mexico	149	11	5	2	6	6	3	8	5	103
North Carolina	1,206	125	6	49	106	360	257	228	62	13
Oregon	389	41	8	9	31	67	61	84	16	72
Rhode Island	141	18	0	7	18	38	23	20	4	13
South Dakota	86	3	0	5	8	17	9	20	3	21
Utah	148	13	5	8	12	20	29	37	11	13
Vermont	85	14	3	2	6	16	22	20	2	0
Virginia	675	114	10	37	46	117	45	32	4	270

[1] Includes only new additions.

Table 8b.—Age When Blinded Group as Percent of Total Additions by State: 1968

[Details may not add to totals due to rounding]

State	Age when blinded group									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	100.0	10.5	1.5	2.9	7.7	17.4	10.7	9.9	2.5	36.8
Connecticut	100.0	18.3	3.7	4.6	11.5	14.9	17.5	18.9	5.4	5.2
Georgia	100.0	4.5	.9	.9	4.5	8.2	.2	0	0	80.9
Kansas	100.0	7.2	1.6	2.3	10.9	22.7	14.1	17.4	7.9	15.8
Louisiana	100.0	19.4	2.8	1.5	11.7	31.8	9.7	6.0	1.7	15.5
Massachusetts	100.0	2.0	.3	.8	.9	1.8	2.3	1.1	.3	90.6
New Hampshire	100.0	12.5	1.9	1.9	1.0	5.8	6.7	2.9	0	67.3
New Jersey	100.0	12.9	2.4	3.4	12.0	18.8	9.7	6.9	1.0	32.8
New Mexico	100.0	7.4	3.4	1.3	4.0	4.0	2.0	5.4	3.4	69.1
North Carolina	100.0	10.4	.5	4.1	8.8	29.9	21.3	18.9	5.1	1.1
Oregon	100.0	10.5	2.1	2.3	8.0	17.2	15.7	21.6	4.1	18.5
Rhode Island	100.0	12.8	0	5.0	12.8	27.0	16.3	14.2	2.8	9.2
South Dakota	100.0	3.5	0	5.8	9.3	19.8	10.5	23.3	3.5	24.4
Utah	100.0	8.8	3.4	5.4	8.1	13.5	19.6	25.0	7.4	8.8
Vermont	100.0	16.5	3.5	2.4	7.1	18.8	25.9	23.5	2.4	0
Virginia	100.0	16.9	1.5	5.5	6.8	17.3	6.7	4.7	.6	40.0

Table 9a.—Additions to Registers by Eye Examiner Discipline and State: 1968

State	Eye examiner discipline group					
	Total	Ophthalmologist or EENT M.D.[2]	Other M.D.	Optometrist	Other	Unknown
MRA total	[1] 7,028	6,270	295	311	55	97
Connecticut	349	295	14	16	19	5
Georgia	561	493	41	21	5	1
Kansas	304	282	11	10	0	1
Louisiana	537	490	25	16	2	4
Massachusetts	1,134	962	71	97	1	3
New Hampshire	104	82	1	14	0	7
New Jersey	1,160	1,053	45	28	15	19
New Mexico	149	128	12	8	0	1
North Carolina	1,206	1,129	32	41	0	4
Oregon	389	358	16	12	1	2
Rhode Island	141	129	5	1	2	4
South Dakota	86	39	7	5	0	35
Utah	148	132	2	3	9	2
Vermont	85	83	0	1	0	1
Virginia	675	615	13	38	1	8

[1] Includes only new additions.
[2] Eye-ear-nose-and-throat specialist.

Table 9b.—Eye Examiner Discipline Group as Percent of Total Additions by State: 1968

(Details may not add to totals due to rounding)

State	Eye examiner discipline group					
	Total	Ophthalmologist or EENT M.D.[1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	89.2	4.2	4.4	.8	1.4
Connecticut	100.0	84.5	4.0	4.6	5.4	1.4
Georgia	100.0	87.9	7.3	3.7	.9	.2
Kansas	100.0	92.8	3.6	3.3	0	.3
Louisiana	100.0	91.2	4.7	3.0	.4	.7
Massachusetts	100.0	84.8	6.3	8.6	.1	.3
New Hampshire	100.0	78.8	1.0	13.5	0	6.7
New Jersey	100.0	90.8	3.9	2.4	1.3	1.6
New Mexico	100.0	85.9	8.1	5.4	0	.7
North Carolina	100.0	93.6	2.7	3.4	0	.3
Oregon	100.0	92.0	4.1	3.1	.3	.5
Rhode Island	100.0	91.5	3.5	.7	1.4	2.8
South Dakota	100.0	45.3	8.1	5.8	0	40.7
Utah	100.0	89.2	1.4	2.0	6.1	1.4
Vermont	100.0	97.6	0	1.2	0	1.2
Virginia	100.0	91.1	1.9	5.6	.1	1.2

[1] Eye-ear-nose-and-throat specialist.

Table 10a.—Additions to Registers by Eye Examiner Discipline and Visual Acuity: 1968

Visual acuity group	Eye examiner discipline group					
	Total	Ophthalmologist or EENT M.D.[2]	Other M.D.	Optometrist	Other	Unknown
MRA total	[1] 7,028	6,270	295	311	55	97
Absolute blindness	409	329	42	26	4	8
Light perception	658	568	30	47	12	1
Light projection	70	58	4	5	1	2
Less than 5/200	1,050	979	34	27	7	3
5/200 to less than 10/200	763	715	11	35	1	1
10/200 to less than 20/200	1,240	1,118	46	66	3	7
20/200	1,946	1,782	53	79	10	22
Restricted field	400	386	5	4	0	5
Unknown	492	335	70	22	17	48

[1] Includes only new additions.
[2] Eye-ear-nose-and-throat specialist.

Table 10b.—Visual Acuity Group as Percent of Total Additions by Eye Examiner Discipline Group: 1968

[Details may not add to totals due to rounding]

Visual acuity group	Eye examiner discipline group					
	Total	Ophthalmologist or EENT M.O.[1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	5.8	5.2	14.2	8.4	7.3	8.2
Light Perception	9.4	9.1	10.2	15.1	21.8	1.0
Light projection	1.0	.9	1.4	1.6	1.8	2.1
Less than 5/200	14.9	15.6	11.5	8.7	12.7	3.1
5/200 to less than 10/200	10.9	11.4	3.7	11.3	1.8	1.0
10/200 to less than 20/200	17.6	17.8	15.6	21.2	5.5	7.2
20/200	27.7	28.4	18.0	25.4	18.2	22.7
Restricted field	5.7	6.2	1.7	1.3	0	5.2
Unknown	7.0	5.3	23.7	7.1	30.9	49.5

[1] Eye-ear-nose-and-throat specialist.

Table 11a.—Additions to Registers by Affection and State: 1968

State	Total	Affection group												
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	[1] 6,270	667	163	54	125	984	220	59	1,165	852	378	647	589	367
Connecticut	295	15	14	3	6	17	8	4	66	52	25	20	36	29
Georgia	493	74	14	6	14	68	32	3	54	43	35	44	53	53
Kansas	282	18	2	0	7	72	6	2	43	32	23	51	12	14
Louisiana	490	74	8	6	11	100	21	5	74	52	41	26	49	23
Massachusetts	962	89	34	3	18	74	25	6	239	175	44	119	85	51
New Hampshire	82	5	6	2	3	13	2	2	17	11	5	5	9	2
New Jersey	1,053	131	33	8	24	137	42	10	156	181	69	84	98	80
New Mexico	128	8	4	0	3	49	3	6	22	3	6	14	6	4
North Carolina	1,129	139	22	11	17	266	32	5	168	126	61	142	86	54
Oregon	358	26	7	4	4	42	4	3	105	47	23	44	42	7
Rhode Island	129	11	2	3	4	8	9	3	28	24	7	13	15	2
South Dakota	39	1	0	1	0	5	2	0	14	4	1	2	6	3
Utah	132	3	2	1	3	7	1	2	55	21	8	16	7	6
Vermont	83	5	3	0	1	16	1	1	25	20	1	4	6	0
Virginia	615	68	12	6	10	110	32	7	99	61	29	63	79	39

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 11b.—Affection Group as Percent of Total Additions by State: 1968

[Details may not add to totals due to rounding]

State	Affection group													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	100.0	10.6	2.6	.9	2.0	15.7	3.5	.9	18.6	13.6	6.0	10.3	9.4	5.9
Connecticut	100.0	5.1	4.7	1.0	2.0	5.8	2.7	1.4	22.4	17.6	8.5	6.8	12.2	9.8
Georgia	100.0	15.0	2.8	1.2	2.8	13.8	6.5	.6	11.0	8.7	7.1	8.9	10.8	10.8
Kansas	100.0	6.4	.7	0	2.5	25.5	2.1	.7	15.2	11.3	8.2	18.1	4.3	5.0
Louisiana	100.0	15.1	1.6	1.2	2.2	20.4	4.3	1.0	15.1	10.6	8.4	5.3	10.0	4.7
Massachusetts	100.0	9.3	3.5	.3	1.9	7.7	2.6	.6	24.8	18.2	4.6	12.4	8.8	5.3
New Hampshire	100.0	6.1	7.3	2.4	3.7	15.9	2.4	2.4	20.7	13.4	6.1	6.1	11.0	2.4
New Jersey	100.0	12.4	3.1	.8	2.3	13.0	4.0	.9	14.8	17.2	6.6	8.0	9.3	7.6
New Mexico	100.0	6.2	3.1	0	2.3	38.3	2.3	4.7	17.2	2.3	4.7	10.9	4.7	3.1
North Carolina	100.0	12.3	1.9	1.0	1.5	23.6	2.8	.4	14.9	11.2	5.4	12.6	7.6	4.8
Oregon	100.0	7.3	2.0	1.1	1.1	11.7	1.1	.8	29.3	13.1	6.4	12.3	11.7	2.0
Rhode Island	100.0	8.5	1.6	2.3	3.1	6.2	7.0	2.3	21.7	18.6	5.4	10.1	11.6	1.6
South Dakota	100.0	2.6	0	2.6	0	12.8	5.1	0	35.9	10.3	2.6	5.1	15.4	7.7
Utah	100.0	2.3	1.5	.8	2.3	5.3	.8	1.5	41.7	15.9	6.1	12.1	5.3	4.5
Vermont	100.0	6.0	3.6	0	1.2	19.3	1.2	1.2	30.1	24.1	1.2	4.8	7.2	0
Virginia	100.0	11.1	2.0	1.0	1.6	17.9	5.2	1.1	16.1	9.9	4.7	10.2	12.8	6.3

Table 12a.—Additions to Registers by Affection and Color/Sex: 1968

Color/sex group	Total	Affection group												
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	[1] 6,270	667	163	54	125	984	220	59	1,165	852	378	647	589	367
Male	2,908	321	74	21	66	450	103	34	491	376	230	224	338	180
Female	3,362	346	89	33	59	534	117	25	674	476	148	423	251	187
White	4,297	333	107	27	69	697	123	47	939	624	239	453	409	230
Male	1,998	148	50	12	31	330	57	24	390	304	152	161	236	103
Female	2,299	185	57	15	38	367	66	23	549	320	87	292	173	127
Nonwhite	1,322	270	36	25	37	221	72	5	87	146	106	135	112	70
Male	599	143	16	9	24	84	35	4	40	42	57	43	61	41
Female	723	127	20	16	13	137	37	1	47	104	49	92	51	29
Unknown color	651	64	20	2	19	66	25	7	139	82	33	59	68	67
Male	311	30	8	0	11	36	11	6	61	30	21	20	41	36
Female	340	34	12	2	8	30	14	1	78	52	12	39	27	31

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 12b.—Affection Group as Percent of Total Additions by Color/Sex Group: 1968

(Details may not add to totals due to rounding)

Color/sex group	Total	Affection group												
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	100.0	10.6	2.6	.9	2.0	15.7	3.5	.9	18.6	13.6	6.0	10.3	9.4	5.9
Male	100.0	11.0	2.5	.7	2.3	15.5	3.5	1.2	16.9	12.9	7.9	7.7	11.6	6.2
Female	100.0	10.3	2.6	1.0	1.8	15.9	3.5	.7	20.0	14.2	4.4	12.6	7.5	5.6
White	100.0	7.7	2.5	.6	1.6	16.2	2.9	1.1	21.9	14.5	5.6	10.5	9.5	5.4
Male	100.0	7.4	2.5	.6	1.6	16.5	2.9	1.2	19.5	15.2	7.6	8.1	11.8	5.2
Female	100.0	8.0	2.5	.7	1.7	16.0	2.9	1.0	23.9	13.9	3.8	12.7	7.5	5.5
Nonwhite	100.0	20.4	2.7	1.9	2.8	16.7	5.4	.4	6.6	11.0	8.0	10.2	8.5	5.3
Male	100.0	23.9	2.7	1.5	4.0	14.0	5.8	.7	6.7	7.0	9.5	7.2	10.2	6.8
Female	100.0	17.6	2.8	2.2	1.8	18.9	5.1	.1	6.5	14.4	6.8	12.7	7.1	4.0
Unknown color	100.0	9.8	3.1	.3	2.9	10.1	3.8	1.1	21.4	12.6	5.1	9.1	10.4	10.3
Male	100.0	9.6	2.6	0	3.5	11.6	3.5	1.9	19.6	9.6	6.8	6.4	13.2	11.6
Female	100.0	10.0	3.5	.6	2.4	8.8	4.1	.3	22.9	15.3	3.5	11.5	7.9	9.1

Table 13a.—Additions to Registers by Affection and Age: 1968

Age group	Affection group													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	[1] 6,270	667	163	54	125	984	220	59	1,165	852	378	647	589	367
Under 5	174	0	2	1	4	48	7	8	2	9	23	0	62	8
5–19	625	3	44	1	12	78	26	38	60	29	88	2	213	31
20–44	766	29	33	14	24	57	53	10	115	126	89	14	147	55
45–64	1,765	249	44	27	42	325	85	0	177	351	119	161	101	84
65–74	938	127	24	7	15	156	17	0	195	167	26	119	24	61
75–84	1,153	171	11	2	12	189	19	1	355	91	20	199	22	61
85 and over	554	58	0	1	6	107	4	2	192	33	4	124	1	22
Unknown	295	30	5	1	10	24	9	0	69	46	9	28	19	45

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 13b.—Affection Group as Percent of Total Additions by Age Group: 1968

[Details may not add to totals due to rounding]

Age group	Affection group													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	100.0	10.6	2.6	.9	2.0	15.7	3.5	.9	18.6	13.6	6.0	10.3	9.4	5.9
Under 5	100.0	0	1.1	.6	2.3	27.6	4.0	4.6	1.1	5.2	13.2	0	35.6	4.6
5–19	100.0	.5	7.0	.2	1.9	12.5	4.2	6.1	9.6	4.6	14.1	.3	34.1	5.0
20–44	100.0	3.8	4.3	1.8	3.1	7.4	6.9	1.3	15.0	16.4	11.6	1.8	19.2	7.2
45–64	100.0	14.1	2.5	1.5	2.4	18.4	4.8	0	10.0	19.9	6.7	9.1	5.7	4.8
65–74	100.0	13.5	2.6	.7	1.6	16.6	1.8	0	20.8	17.8	2.8	12.7	2.6	6.5
75–84	100.0	14.8	1.0	.2	1.0	16.4	1.6	.1	30.8	7.9	1.7	17.3	1.9	5.3
85 and over	100.0	10.5	0	.2	1.1	19.3	.7	.4	34.7	6.0	.7	22.4	.2	4.0
Unknown	100.0	10.2	1.7	.3	3.4	8.1	3.1	0	23.4	15.6	3.1	9.5	6.4	15.3

Table 14a.—Additions to Registers by Affection and Visual Acuity: 1968

Visual acuity group	Affection group													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	[1] 6,270	667	163	54	125	984	220	59	1,165	852	378	647	589	367
Absolute blindness	329	63	2	3	12	13	14	10	13	32	47	22	69	29
Light perception	568	63	4	3	16	108	23	15	44	109	38	54	60	31
Light projection	58	4	0	0	0	17	3	1	4	12	3	8	5	1
Less than 5/200	979	94	21	13	24	164	39	3	159	187	62	112	64	37
5/200 to less than 10/200	715	49	10	2	14	131	26	3	178	103	35	95	37	32
10/200 to less than 20/200	1118	80	42	10	25	149	43	5	261	160	57	132	74	80
20/200	1782	127	76	20	27	319	52	14	387	209	88	184	184	95
Restricted field	386	173	4	2	1	9	11	0	86	15	13	13	30	29
Unknown	335	14	4	1	6	74	9	8	33	25	35	27	66	33

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 14b.—Visual Acuity Group as Percent of Total Additions by Affection Group: 1968

[Details may not add to totals due to rounding]

Visual acuity group	Affection group													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affection	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	5.2	9.4	1.2	5.6	9.6	1.3	6.4	16.9	1.1	3.8	12.4	3.4	11.7	7.9
Light perception	9.1	9.4	2.5	5.6	12.8	11.0	10.5	25.4	3.8	12.8	10.1	8.3	10.2	8.4
Light projection	.9	.6	0	0	0	1.7	1.4	1.7	.3	1.4	.8	1.2	.8	.3
Less than 5/200	15.6	14.1	12.9	24.1	19.2	16.7	17.7	5.1	13.6	21.9	16.4	17.3	10.9	10.1
5/200 to less than 10/200	11.4	7.3	6.1	3.7	11.2	13.3	11.8	5.1	15.3	12.1	9.3	14.7	6.3	8.7
10/200 to less than 20/200	17.8	12.0	25.8	18.5	20.0	15.1	19.5	8.5	22.4	18.8	15.1	20.4	12.6	21.8
20/200	28.4	19.0	46.6	37.0	21.6	32.4	23.6	23.7	33.2	24.5	23.3	28.4	31.2	25.9
Restricted field	6.2	25.9	2.5	3.7	.8	.9	5.0	0	7.4	1.8	3.4	2.0	5.1	7.9
Unknown	5.3	2.1	2.5	1.9	4.8	7.5	4.1	13.6	2.8	2.9	9.3	4.2	11.2	9.0

Table 15a.—Additions to Registers by Etiology and State: 1968

State	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1]6,270	157	194	80	681	1,785	153	84	909	376	748	1,103
Connecticut	295	10	10	8	42	64	9	6	53	14	20	59
Georgia	493	15	18	5	27	81	10	8	74	34	83	138
Kansas	282	3	11	4	25	114	4	3	28	26	22	42
Louisiana	490	17	21	7	33	110	8	11	79	20	81	103
Massachusetts	962	18	23	13	155	270	30	8	119	80	97	149
New Hampshire	82	4	1	4	9	23	1	1	15	5	6	13
New Jersey	1,053	35	38	15	150	217	20	16	168	52	149	193
New Mexico	128	1	1	0	3	65	0	0	7	11	8	32
North Carolina	1,129	17	23	7	94	421	29	9	119	67	150	193
Oregon	358	7	10	5	33	129	19	8	64	21	29	33
Rhode Island	129	6	6	2	21	31	5	3	17	8	13	17
South Dakota	39	0	0	1	2	17	2	0	2	1	3	11
Utah	132	2	5	3	17	63	4	1	17	2	5	13
Vermont	83	1	5	0	13	30	1	2	18	4	5	4
Virginia	615	21	22	6	57	150	11	8	129	31	77	103

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 15b.—Etiology Group as Percent of Total Additions by State: 1968

[Details may not add to totals due to rounding]

State	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	100.0	2.5	3.1	1.3	10.9	28.5	2.4	1.3	14.5	6.0	11.9	17.6
Connecticut	100.0	3.4	3.4	2.7	14.2	21.7	3.1	2.0	18.0	4.7	6.8	20.0
Georgia	100.0	3.0	3.7	1.0	5.5	16.4	2.0	1.6	15.0	6.9	16.8	28.0
Kansas	100.0	1.1	3.9	1.4	8.9	40.4	1.4	1.1	9.9	9.2	7.8	14.9
Louisiana	100.0	3.5	4.3	1.4	6.7	22.4	1.6	2.2	16.1	4.1	16.5	21.0
Massachusetts	100.0	1.9	2.4	1.4	16.1	28.1	3.1	.8	12.4	8.3	10.1	15.5
New Hampshire	100.0	4.9	1.2	4.9	11.0	28.0	1.2	1.2	18.3	6.1	7.3	15.9
New Jersey	100.0	3.3	3.6	1.4	14.2	20.6	1.9	1.5	16.0	4.9	14.2	18.3
New Mexico	100.0	.8	.8	0	2.3	50.8	0	0	5.5	8.6	6.2	25.0
North Carolina	100.0	1.5	2.0	.6	8.3	37.3	2.6	.8	10.5	5.9	13.3	17.1
Oregon	100.0	2.0	2.8	1.4	9.2	36.0	5.3	2.2	17.9	5.9	8.1	9.2
Rhode Island	100.0	4.7	4.7	1.6	16.3	24.0	3.9	2.3	13.2	6.2	10.1	13.2
South Dakota	100.0	0	0	2.6	5.1	43.6	5.1	0	5.1	2.6	7.7	28.2
Utah	100.0	1.5	3.8	2.3	12.9	47.7	3.0	.8	12.9	1.5	3.8	9.8
Vermont	100.0	1.2	6.0	0	15.7	36.1	1.2	2.4	21.7	4.8	6.0	4.8
Virginia	100.0	3.4	3.6	1.0	9.3	24.4	1.8	1.3	21.0	5.0	12.5	16.7

Table 16a.—Additions to Registers by Etiology and Color/Sex: 1968

Color/sex group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1]6,270	157	194	80	681	1,785	153	84	909	376	748	1,103
Male	2,908	74	144	42	270	703	81	42	491	144	361	556
Female	3,362	83	50	38	411	1,082	72	42	418	232	387	547
White	4,297	78	125	58	481	1,413	115	50	636	251	389	701
Male	1,998	37	89	31	220	554	58	27	349	101	175	357
Female	2,299	41	36	27	261	859	57	23	287	150	214	344
Nonwhite	1,322	59	53	13	133	218	25	24	165	84	283	265
Male	599	31	40	6	28	82	15	9	85	28	149	126
Female	723	28	13	7	105	136	10	15	80	56	134	139
Unknown color	651	20	16	9	67	154	13	10	108	41	76	137
Male	311	6	15	5	22	67	8	6	57	15	37	73
Female	340	14	1	4	45	87	5	4	51	26	39	64

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 16b.—Etiology Group as Percent of Total Additions by Color/Sex Group: 1968

[Details may not add to totals due to rounding]

Color/sex group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	100.0	2.5	3.1	1.3	10.9	28.5	2.4	1.3	14.5	6.0	11.9	17.6
Male	100.0	2.5	5.0	1.4	9.3	24.2	2.8	1.4	16.9	5.0	12.4	19.1
Female	100.0	2.5	1.5	1.1	12.2	32.2	2.1	1.2	12.4	6.9	11.5	16.3
White	100.0	1.8	2.9	1.3	11.2	32.9	2.7	1.2	14.8	5.8	9.1	16.3
Male	100.0	1.9	4.5	1.6	11.0	27.7	2.9	1.4	17.5	5.1	8.8	17.9
Female	100.0	1.8	1.6	1.2	11.4	37.4	2.5	1.0	12.5	6.5	9.3	15.0
Nonwhite	100.0	4.5	4.0	1.0	10.1	16.5	1.9	1.8	12.5	6.4	21.4	20.0
Male	100.0	5.2	6.7	1.0	4.7	13.7	2.5	1.5	14.2	4.7	24.9	21.0
Female	100.0	3.9	1.8	1.0	14.5	18.8	1.4	2.1	11.1	7.7	18.5	19.2
Unknown color	100.0	3.1	2.5	1.4	10.3	23.7	2.0	1.5	16.6	6.3	11.7	21.0
Male	100.0	1.9	4.8	1.6	7.1	21.5	2.6	1.9	18.3	4.8	11.9	23.5
Female	100.0	4.1	.3	1.2	13.2	25.6	1.5	1.2	15.0	7.6	11.5	18.8

Table 17a.—Additions to Registers by Etiology and Age: 1968

Age group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1]6,270	157	194	80	681	1,785	153	84	909	376	748	1,103
Under 5	174	41	9	7	0	0	0	6	90	0	0	21
5–19	625	20	30	31	1	0	1	14	362	1	27	138
20–44	766	31	79	18	101	5	7	36	226	6	57	200
45–64	1,765	41	56	16	322	376	55	23	148	110	267	351
65–74	938	13	8	3	151	334	30	3	38	74	130	154
75–84	1,153	4	7	1	55	614	40	1	17	113	174	127
85 and over	554	2	0	0	7	372	13	0	5	57	59	39
Unknown	295	5	5	4	44	84	7	1	23	15	34	73

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 17b.—Etiology Group as Percent of Total Additions by Age Group: 1968

[Details may not add to totals due to rounding]

Age group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	100.0	2.5	3.1	1.3	10.9	28.5	2.4	1.3	14.5	6.0	11.9	17.6
Under 5	100.0	23.6	5.2	4.0	0	0	0	3.4	51.7	0	0	12.1
5–19	100.0	3.2	4.8	5.0	.2	0	.2	2.2	57.9	.2	4.3	22.1
20–44	100.0	4.0	10.3	2.3	13.2	.7	.9	4.7	29.5	.8	7.4	26.1
45–64	100.0	2.3	3.2	.9	18.2	21.3	3.1	1.3	8.4	6.2	15.1	19.9
65–74	100.0	1.4	.9	.3	16.1	35.6	3.2	.3	4.1	7.9	13.9	16.4
75–84	100.0	.3	.6	.1	4.8	53.3	3.5	.1	1.5	9.8	15.1	11.0
85 and over	100.0	.4	0	0	1.3	67.1	2.3	0	.9	10.3	10.6	7.0
Unknown	100.0	1.7	1.7	1.4	14.9	28.5	2.4	.3	7.8	5.1	11.5	24.7

Table 18a.—Additions to Registers by Etiology and Visual Acuity: 1968

Visual acuity group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1]6,270	157	194	80	681	1,785	153	84	909	376	748	1,103
Absolute blindness	329	12	44	14	15	16	17	5	39	18	64	85
Light perception	568	25	28	16	87	110	19	4	73	29	66	111
Light projection	58	1	1	1	7	21	1	0	5	4	4	13
Less than 5/200	979	21	27	14	153	299	29	18	86	64	103	165
5/200 to less than 10/200	715	9	16	6	98	293	20	4	56	52	59	102
10/200 to less than 20/200	1,118	26	22	5	134	384	20	14	141	70	97	205
20/200	1,782	38	36	13	160	586	28	22	319	108	166	306
Restricted field	386	2	12	6	8	13	8	5	92	12	174	54
Unknown	335	23	8	5	19	63	11	12	98	19	15	62

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

Table 18b.—Visual Acuity Group as Percent of Total Additions by Etiology Group: 1968

[Details may not add to totals due to rounding]

Visual acuity group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	5.2	7.6	22.7	17.5	2.2	.9	11.1	6.0	4.3	4.8	8.6	7.7
Light perception	9.1	15.9	14.4	20.0	12.8	6.2	12.4	4.8	8.0	7.7	8.8	10.1
Light projection	.9	.6	.5	1.2	1.0	1.2	.7	0	.6	1.1	.5	1.2
Less than 5/200	15.6	13.4	13.9	17.5	22.5	16.8	19.0	21.4	9.5	17.0	13.8	15.0
5/200 to less than 10/200	11.4	5.7	8.2	7.5	14.4	16.4	13.1	4.8	6.2	13.8	7.9	9.2
10/200 to less than 20/200	17.8	16.6	11.3	6.2	19.7	21.5	13.1	16.7	15.5	18.6	13.0	18.6
20/200	28.4	24.2	18.6	16.2	23.5	32.8	18.3	26.2	35.1	28.7	22.2	27.7
Restricted field	6.2	1.3	6.2	7.5	1.2	.7	5.2	6.0	10.1	3.2	23.3	4.9
Unknown	5.3	14.6	4.1	6.2	2.8	3.5	7.2	14.3	10.8	5.1	2.0	5.6

Table 19a.—Additions to Registers by Etiology and Affection: 1968

Affection group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1] 6,270	157	194	80	681	1,785	153	84	909	376	748	1,103
Glaucoma, not congenital	667	0	0	0	0	0	0	0	0	0	667	0
Myopia	163	0	0	0	0	0	0	0	55	0	0	108
Keratitis	54	34	0	0	0	0	0	6	0	0	1	13
Other affection of cornea or sclera	125	0	24	0	0	6	0	4	17	0	23	51
Cataract	984	33	8	0	0	[2] 760	0	4	129	0	0	50
Uveitis	220	37	8	0	0	0	0	7	12	0	0	156
Retrolental fibroplasia	59	0	20	0	0	0	0	0	0	0	0	39
Retinal degeneration	1,165	0	5	0	0	815	0	0	253	0	52	40
Other retinal affection	852	3	4	13	590	41	72	3	25	0	3	98
Optic nerve atrophy	378	29	36	48	0	0	16	39	54	0	0	156
Multiple affection	647	0	0	0	83	162	0	0	0	376	1	25
Other	589	16	77	18	1	0	51	20	346	0	1	59
Unknown	367	5	12	1	7	1	14	1	18	0	0	308

[1] Includes only new additions whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists. Does not include 295 additions examined by other M.D.'s, 463 additions examined by non-medical and unknown disciplines, and 306 readditions.

[2] Includes 55 cases of senile-type cataract in diabetic persons.

Table 19b.—Percent of Total Additions to Registers by Etiology Group and Affection Group: 1968

(Details may not add to totals due to rounding)

Affection group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	100.0	2.5	3.1	1.3	10.9	28.5	2.4	1.3	14.5	6.0	11.9	17.6
Glaucoma, not congenital	10.6	0	0	0	0	0	0	0	0	0	10.6	0
Myopia	2.6	0	0	0	0	0	0	0	.9	0	0	1.7
Keratitis	.9	.5	0	0	0	0	0	.1	0	0	0.0	.2
Other affection of cornea or sclera	2.0	0	.4	0	0	.1	0	.1	.3	0	.4	.8
Cataract	15.7	.5	.1	0	0	12.1	0	.1	2.1	0	0	.8
Uveitis	3.5	.6	.1	0	0	0	0	.1	.2	0	0	2.5
Retrolental fibroplasia	.9	0	.3	0	0	0	0	0	0	0	0	.6
Retinal degeneration	18.6	0	.1	0	0	13.0	0	0	4.0	0	.8	.6
Other retinal affection	13.6	0.0	.1	.2	9.4	.7	1.1	0.0	.4	0	0.0	1.6
Optic nerve atrophy	6.0	.5	.6	.8	0	0	.3	.6	.9	0	0	2.5
Multiple affection	10.3	0	0	0	1.3	2.6	0	0	0	6.0	0.0	.4
Other	9.4	.3	1.2	.3	0.0	0	.8	.3	5.5	0	0.0	.9
Unknown	5.9	.1	.2	0.0	.1	0.0	.2	0.0	.3	0	0	4.9

Table 20a.—Additions to Registers by Etiology and Multiple Affection: 1968

(The figures in a column do not add to the column total because multiple affection groups are not mutually exclusive)

Multiple affection group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	[1] 647	0	0	0	83	162	0	0	0	376	1	25
Glaucoma and other [2]	260	0	0	0	0	0	0	0	0	259	1	0
Cataract and other [2]	486	0	0	0	83	161	0	0	0	227	1	14
Retinal affection and other with diabetic etiology [2]	101	0	0	0	83	0	0	0	0	18	0	0
Retinal affection and other without diabetic etiology [2]	310	0	0	0	0	157	0	0	0	145	0	8
Degenerative myopia and other	31	0	0	0	0	0	0	0	0	26	0	5
Other	7	0	0	0	0	0	0	0	0	5	0	2

[1] The total includes only those persons whose eyes were examined by ophthalmologists or eye-ear-nose-and-throat specialists.

[2] Excludes degenerative myopia and other.

Table 20b.—Percent of Total Additions to Registers by Etiology Group and Multiple Affection Group: 1968

[The figures in a column do not add to the column total because multiple affection groups are not mutually exclusive]

Multiple affection group	Etiology group											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiology	Unknown to science	Not reported or determined
MRA total	10.3	0	0	0	1.3	2.6	0	0	0	6.0	0.0	.4
Glaucoma and other [1]	4.1	0	0	0	0	0	0	0	0	4.1	0.0	0
Cataract and other [1]	7.8	0	0	0	1.3	2.6	0	0	0	3.6	0.0	.2
Retinal affection and other with diabetic etiology [1]	1.6	0	0	0	1.3	0	0	0	0	.3	0	0
Retinal affection and other without diabetic etiology [1]	4.9	0	0	0	0	2.5	0	0	0	2.3	0	.1
Degenerative myopia and other	.5	0	0	0	0	0	0	0	0	.4	0	.1
Other	.1	0	0	0	0	0	0	0	0	.1	0	0.0

[1] Excludes degenerative myopia and other.

Table 21a.—Removals from Registers by Removal Reason and State: 1968

State	Removal reason					
	Total	Death	Left state	Sight restored	Unable to locate	Other
MRA total	5,050	3,213	521	700	399	217
Connecticut	359	279	41	23	14	2
Georgia	382	244	41	53	23	21
Kansas	413	273	37	78	11	14
Louisiana	431	255	31	121	19	5
Massachusetts	567	307	32	19	204	5
New Hampshire	80	63	11	4	0	2
New Jersey	435	225	86	104	17	3
New Mexico	172	55	2	3	1	111
North Carolina	1,246	835	90	192	99	30
Oregon	282	186	38	46	3	9
Rhode Island	162	110	25	24	0	3
South Dakota	87	66	11	0	6	4
Utah	94	72	17	2	0	3
Vermont	78	63	7	8	0	0
Virginia	262	180	52	23	2	5

Table 21b.—Removal Reason Group as Percent of Total Removals by State: 1968

[Details may not add to totals due to rounding]

State	Removal reason					
	Total	Death	Left state	Sight restored	Unable to locate	Other
MRA total	100.0	63.6	10.3	13.9	7.9	4.3
Connecticut	100.0	77.7	11.4	6.4	3.9	.6
Georgia	100.0	63.9	10.7	13.9	6.0	5.5
Kansas	100.0	66.1	9.0	18.9	2.7	3.4
Louisiana	100.0	59.2	7.2	28.1	4.4	1.2
Massachusetts	100.0	54.1	5.6	3.4	36.0	.9
New Hampshire	100.0	78.7	13.7	5.0	0	2.5
New Jersey	100.0	51.7	19.8	23.9	3.9	.7
New Mexico	100.0	32.0	1.2	1.7	.6	64.5
North Carolina	100.0	67.0	7.2	15.4	7.9	2.4
Oregon	100.0	66.0	13.5	16.3	1.1	3.2
Rhode Island	100.0	67.9	15.4	14.8	0	1.9
South Dakota	100.0	75.9	12.6	0	6.9	4.6
Utah	100.0	76.6	18.1	2.1	0	3.2
Vermont	100.0	80.8	9.0	10.3	0	0
Virginia	100.0	68.7	19.8	8.8	.8	1.9

Table 22a.—Population in Registers by Age and Color/Sex: December 31, 1968

Color/sex group	Age group								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	93,341	680	9,031	14,664	24,690	15,526	15,462	10,194	3,094
Male	45,298	364	5,041	8,546	13,128	7,383	6,186	3,359	1,291
Female	48,043	316	3,990	6,118	11,562	8,143	9,276	6,835	1,803
White	46,951	284	4,621	7,735	11,726	7,331	8,317	5,820	1,117
Male	22,783	153	2,569	4,572	6,433	3,438	3,242	1,890	486
Female	24,168	131	2,052	3,163	5,293	3,893	5,075	3,930	631
Nonwhite	14,321	98	1,110	2,469	5,196	2,861	1,671	807	109
Male	7,104	58	618	1,353	2,625	1,363	725	306	56
Female	7,217	40	492	1,116	2,571	1,498	946	501	53
Unknown color	32,069	298	3,300	4,460	7,768	5,334	5,474	3,567	1,868
Male	15,411	153	1,854	2,621	4,070	2,582	2,219	1,163	749
Female	16,658	145	1,446	1,839	3,698	2,752	3,255	2,404	1,119

Table 22b.—Number of Persons in Registers per 100,000 Population by Age and Color/Sex: December 31, 1968

(MRA total rates are based on populations including New York. Rates for whites and nonwhites are based on populations excluding New York.)

Color/sex group	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	153.8	10.2	55.9	74.3	196.8	416.7	1,021.9	3,353.3
Male	152.5	10.7	61.6	88.9	216.3	434.8	965.1	2,972.6
Female	155.0	9.6	50.0	60.3	178.5	401.5	1,062.5	3,578.5
White	128.3	(**)	47.0	64.4	158.7	331.6	884.8	3,063.2
Male	126.3	(**)	51.3	77.1	179.0	342.8	822.8	2,700.0
Female	130.3	(**)	42.5	52.0	139.4	322.0	929.5	3,275.0
Nonwhite	241.4	(**)	56.4	137.7	554.5	1117.6	1,740.6	(—)
Male	247.1	(**)	62.9	160.3	587.2	1155.1	1,647.7	(—)
Female	236.1	(**)	49.9	117.6	523.6	1085.5	1,819.2	(—)

—Not computed because the estimated total population of MRA States in 1968 was less than 25,000 for this age and color/sex group.

**Not computed because color was unknown for more than 10 percent of total on the MRA register in this group, exclusive of New York.

Table 23a.—Population in Registers by Color/Sex and State: December 31, 1968

State	Color/sex group											
	MRA total			White			Nonwhite			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	93,341	45,298	48,043	46,951	22,783	24,168	14,321	7,104	7,217	32,069	15,411	16,658
Connecticut	3,523	1,679	1,844	3,245	1,541	1,704	260	126	134	18	12	6
Georgia	5,504	2,788	2,716	2,600	1,365	1,235	2,558	1,231	1,327	346	192	154
Kansas	2,955	1,367	1,588	2,628	1,194	1,434	304	162	142	23	11	12
Louisiana	6,446	3,482	2,964	3,412	1,848	1,564	2,989	1,613	1,376	45	21	24
Massachusetts	10,754	4,833	5,921	9,570	4,346	5,224	349	159	190	835	328	507
New Hampshire	1,122	538	584	1,112	532	580	7	4	3	3	2	1
New Jersey	8,186	3,977	4,209	6,136	2,964	3,172	1,336	643	693	714	370	344
New Mexico	2,540	1,372	1,168	2,355	1,263	1,092	181	107	74	4	2	2
New York	29,478	14,199	15,279	0	0	0	0	0	0	29,478	14,199	15,279
North Carolina	10,595	4,982	5,613	6,233	2,987	3,246	4,353	1,990	2,363	9	5	4
Oregon	2,671	1,309	1,362	2,517	1,219	1,298	71	43	28	83	47	36
Rhode Island	1,128	537	591	1,059	512	547	42	14	28	27	11	16
South Dakota	898	465	433	710	359	351	173	101	72	15	5	10
Utah	1,354	616	738	1,330	598	732	24	18	6	0	0	0
Vermont	727	330	397	724	328	396	3	2	1	0	0	0
Virginia	5,460	2,824	2,636	3,320	1,727	1,593	1,671	891	780	469	206	263

Table 23b.—Number of Persons in Registers per 100,000 Population by Color/Sex and State: December 31, 1968

(MRA total rates are based on populations including New York. Rates for whites and nonwhites are based on populations excluding New York.)

State	Color/sex group								
	MRA total			White			Nonwhite		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	153.8	152.5	155.0	128.3	126.3	130.3	241.4	247.1	236.1
Connecticut	119.0	115.6	122.3	114.6	110.9	118.3	200.0	196.9	203.0
Georgia	120.2	124.7	115.9	79.5	84.5	74.6	195.7	198.5	193.2
Kansas	129.0	120.2	137.6	120.2	110.0	130.2	289.5	305.7	267.9
Louisiana	173.7	192.0	156.3	135.5	148.8	122.5	251.0	282.0	222.3
Massachusetts	197.8	184.0	210.6	180.4	169.8	190.3	264.4	240.9	283.6
New Hampshire	159.6	155.9	163.1	158.9	154.7	162.9	(—)	(—)	(—)
New Jersey	115.8	114.8	116.7	95.1	93.6	96.5	217.2	216.5	217.9
New Mexico	255.5	273.9	236.9	257.4	273.4	241.1	229.1	274.4	185.0
New York	162.1	161.3	162.8	(**)	(**)	(**)	(**)	(**)	(**)
North Carolina	206.5	196.8	215.9	162.8	157.5	168.1	334.1	314.4	352.7
Oregon	133.3	131.3	135.3	128.3	124.9	131.5	169.0	(—)	(—)
Rhode Island	124.2	120.4	127.9	119.5	118.0	121.0	(—)	(—)	(—)
South Dakota	135.0	138.4	131.6	111.3	111.1	111.4	640.7	(—)	(—)
Utah	131.3	119.6	143.0	131.4	118.4	144.4	(—)	(—)	(—)
Vermont	169.5	156.4	182.1	169.2	155.5	181.7	(—)	(—)	(—)
Virginia	118.6	122.9	114.3	91.0	94.7	87.3	174.6	188.0	161.5

—Not computed because the State had less than 25,000 such people, including sighted and blind persons.

**Not computed because color was unknown for more than 10 percent of total on the state register.

Table 24a.—Population in Registers by Age and State: December 31, 1968

State	Total	Age group							
		Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
MRA total	93,341	680	9,031	14,664	24,690	15,526	15,462	10,194	3,094
Connecticut	3,523	39	534	596	826	512	594	393	29
Georgia	5,504	7	332	1,163	2,409	890	387	112	204
Kansas	2,955	17	275	396	680	463	626	491	7
Louisiana	6,446	52	567	1,142	2,225	1,259	736	349	116
Massachusetts	10,754	73	945	1,495	2,335	1,825	2,165	1,366	550
New Hampshire	1,122	18	144	161	217	178	186	175	43
New Jersey	8,186	89	1,003	1,288	2,161	1,308	1,245	895	197
New Mexico	2,540	3	103	294	369	334	542	509	386
New York	29,478	233	2,861	4,298	7,403	5,079	5,177	3,369	1,058
North Carolina	10,595	56	956	1,766	2,956	1,864	1,815	1,179	3
Oregon	2,671	35	283	398	592	386	560	394	23
Rhode Island	1,128	14	120	217	304	210	157	95	11
South Dakota	898	5	84	133	187	170	175	123	21
Utah	1,354	4	126	199	235	172	341	275	2
Vermont	727	8	64	117	190	119	131	96	2
Virginia	5,460	27	634	1,001	1,601	757	625	373	442

Table 24b.—Number of Persons in Registers per 100,000 Population by Age and State: December 31, 1968

State	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	153.8	10.2	55.9	74.3	196.8	416.7	1021.9	3353.3
Connecticut	119.0	12.0	71.5	60.7	132.4	269.5	771.4	(—)
Georgia	120.2	1.3	24.2	77.9	290.9	393.8	416.1	(—)
Kansas	129.0	6.6	44.8	55.6	149.8	294.9	802.6	(—)
Louisiana	173.7	10.8	50.4	99.0	329.6	684.2	968.4	(—)
Massachusetts	197.8	12.6	69.1	87.2	199.2	463.2	1258.7	3594.7
New Hampshire	159.6	23.4	77.4	74.9	147.6	356.0	(—)	(—)
New Jersey	115.8	11.9	57.3	54.3	140.1	291.3	728.1	2712.1
New Mexico	255.5	(*)	(*)	(*)	(*)	(*)	(*)	(*)
New York	162.1	12.7	65.5	72.3	175.6	403.4	1083.1	3702.2
North Carolina	206.5	9.4	60.5	103.9	325.9	786.5	1890.6	(—)
Oregon	133.3	16.7	51.0	65.6	139.6	281.8	933.3	(—)
Rhode Island	124.2	14.7	52.2	73.6	156.7	333.3	603.8	(—)
South Dakota	135.0	6.2	43.5	68.9	146.1	369.6	(—)	(—)
Utah	131.3	2.7	38.3	61.8	142.4	373.9	(—)	(—)
Vermont	169.5	16.7	52.5	93.6	220.9	396.7	(—)	(—)
Virginia	118.6	5.1	48.1	63.0	192.4	341.0	664.9	(—)

—Not computed because there were less than 25,000 such people in the State, including sighted and blind persons.
*Not computed because age was unknown for more than 10 percent of total on the state register.

Table 25a.—Population in Registers by Visual Acuity and State: December 31, 1968

State	Total	Visual acuity group								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	93,341	10,343	11,024	1,090	15,128	8,774	14,785	20,112	6,279	5,806
Connecticut	3,523	396	376	68	517	325	400	785	182	474
Georgia	5,504	881	790	112	949	513	687	1,066	310	196
Kansas	2,955	399	346	37	444	295	449	770	127	88
Louisiana	6,446	840	713	158	1,230	420	1,013	1,200	657	215
Massachusetts	10,754	835	936	75	1,539	1,263	2,285	2,597	641	583
New Hampshire	1,122	114	120	8	179	85	209	271	60	76
New Jersey	8,186	988	1,133	100	1,064	1,066	1,146	1,662	464	563
New Mexico	2,540	223	374	12	331	192	210	552	26	620
New York	29,478	3,232	3,576	378	5,353	2,602	5,092	6,151	2,555	539
North Carolina	10,595	1,031	1,283	63	1,774	842	1,527	2,455	597	1,023
Oregon	2,671	326	317	8	415	262	526	597	203	17
Rhode Island	1,128	135	133	7	173	118	150	232	50	130
South Dakota	898	111	93	12	67	78	103	125	35	274
Utah	1,354	73	95	8	166	126	264	326	30	266
Vermont	727	69	88	8	107	62	106	168	74	45
Virginia	5,460	690	651	36	820	525	618	1,155	268	697

Table 25b.—Visual Acuity Group as Percent of Total in Register by State: December 31, 1968

(Details may not add to totals due to rounding)

State	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	11.1	11.8	1.2	16.2	9.4	15.8	21.5	6.7	6.2
Connecticut	100.0	11.2	10.7	1.9	14.7	9.2	11.4	22.3	5.2	13.5
Georgia	100.0	16.0	14.4	2.0	17.2	9.3	12.5	19.4	5.6	3.6
Kansas	100.0	13.5	11.7	1.3	15.0	10.0	15.2	26.1	4.3	3.0
Louisiana	100.0	13.0	11.1	2.5	19.1	6.5	15.7	18.6	10.2	3.3
Massachusetts	100.0	7.8	8.7	.7	14.3	11.7	21.2	24.1	6.0	5.4
New Hampshire	100.0	10.2	10.7	.7	16.0	7.6	18.6	24.2	5.3	6.8
New Jersey	100.0	12.1	13.8	1.2	13.0	13.0	14.0	20.3	5.7	6.9
New Mexico	100.0	8.8	14.7	.5	13.0	7.6	8.3	21.7	1.0	24.4
New York	100.0	11.0	12.1	1.3	18.2	8.8	17.3	20.9	8.7	1.8
North Carolina	100.0	9.7	12.1	.6	16.7	7.9	14.4	23.2	5.6	9.7
Oregon	100.0	12.2	11.9	.3	15.5	9.8	19.7	22.4	7.6	.6
Rhode Island	100.0	12.0	11.8	.6	15.3	10.5	13.3	20.6	4.4	11.5
South Dakota	100.0	12.4	10.4	1.3	7.5	8.7	11.5	13.9	3.9	30.5
Utah	100.0	5.4	7.0	.6	12.3	9.3	19.5	24.1	2.2	19.6
Vermont	100.0	9.5	12.1	1.1	14.7	8.5	14.6	23.1	10.2	6.2
Virginia	100.0	12.6	11.9	.7	15.0	9.6	11.3	21.2	4.9	12.8

Table 26a.—Population in Registers by Visual Acuity and Color/Sex: December 31, 1968

Color/sex group	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	93,341	10,343	11,024	1,090	15,128	8,774	14,785	20,112	6,279	5,806
Male	45,298	5,319	5,281	515	7,239	4,178	6,835	9,657	3,409	2,865
Female	48,043	5,024	5,743	575	7,889	4,596	7,950	10,455	2,870	2,941
White	46,951	4,748	5,148	476	6,901	4,678	7,533	10,848	2,549	4,070
Male	22,783	2,515	2,496	229	3,303	2,203	3,433	5,144	1,451	2,009
Female	24,168	2,233	2,652	247	3,598	2,475	4,100	5,704	1,098	2,061
Nonwhite	14,321	2,181	2,089	217	2,580	1,216	1,650	2,492	1,061	835
Male	7,104	1,091	970	97	1,307		802	1,218	582	425
Female	7,217	1,090	1,119	120	1,273	604	848	1,274	479	410
Unknown color	32,069	3,414	3,787	397	5,647	2,880	5,602	6,772	2,669	901
Male	15,411	1,713	1,815	189	2,629	1,363	2,600	3,295	1,376	431
Female	16,658	1,701	1,972	208	3,018	1,517	3,002	3,477	1,293	470

Table 26b.—Visual Acuity Group as Percent of Total in Registers by Color/Sex Group: December 31, 1968

[Details may not add to totals due to rounding]

Color/sex group	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	11.1	11.8	1.2	16.2	9.4	15.8	21.5	6.7	6.2
Male	100.0	11.7	11.7	1.1	16.0	9.2	15.1	21.3	7.5	6.3
Female	100.0	10.5	12.0	1.2	16.4	9.6	16.5	21.8	6.0	6.1
White	100.0	10.1	11.0	1.0	14.7	10.0	16.0	23.1	5.4	8.7
Male	100.0	11.0	11.0	1.0	14.5	9.7	15.1	22.6	6.4	8.8
Female	100.0	9.2	11.0	1.0	14.9	10.2	17.0	23.6	4.5	8.5
Nonwhite	100.0	15.2	14.6	1.5	18.0	8.5	11.5	17.4	7.4	5.8
Male	100.0	15.4	13.7	1.4	18.4	8.6	11.3	17.1	8.2	6.0
Female	100.0	15.1	15.5	1.7	17.6	8.4	11.8	17.7	6.6	5.7
Unknown color	100.0	10.6	11.8	1.2	17.6	9.0	17.5	21.1	8.3	2.8
Male	100.0	11.1	11.8	1.2	17.1	8.8	16.9	21.4	8.9	2.8
Female	100.0	10.2	11.8	1.2	18.1	9.1	18.0	20.9	7.8	2.8

Table 27a.—Population in Registers by Visual Acuity and Age: December 31, 1968

Age group	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	93,341	10,343	11,024	1,090	15,128	8,774	14,785	20,112	6,279	5,806
Under 5	680	126	165	17	53	16	23	28	0	252
5–19	9,031	1,490	1,255	89	779	537	1,198	2,312	220	1,151
20–44	14,664	1,974	1,713	151	1,904	1,208	2,281	3,650	1,012	771
45–64	24,690	2,837	2,964	311	4,294	2,369	3,748	4,849	2,327	991
65–74	15,526	1,598	1,837	188	2,956	1,509	2,472	3,095	1,238	633
75–84	15,462	1,350	1,753	167	2,839	1,687	2,684	3,360	894	728
85 and over	10,194	762	1,110	145	1,921	1,187	1,812	2,128	389	740
Unknown	3,094	206	227	22	382	261	567	690	199	540

Table 27b.—Visual Acuity Group as Percent of Total in Registers by Age Group: December 31, 1968

[Details may not add to totals due to rounding]

Age group	Visual acuity group									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100 0	11.1	11.8	1.2	16.2	9.4	15.8	21.5	6.7	6.2
Under 5	100.0	18.5	24.3	2.5	7.8	2.4	3.4	4.1	0	37.1
5–19	100.0	16.5	13.9	1.0	8.6	5.9	13.3	25.6	2.4	12.7
20–44	100.0	13.5	11.7	1.0	13.0	8.2	15.6	24.9	6.9	5.3
45–64	100.0	11.5	12.0	1.3	17.4	9.6	15.2	19.6	9.4	4.0
65–74	100.0	10.3	11.8	1.2	19.0	9.7	15.9	19.9	8.0	4.1
75–84	100.0	8.7	11.3	1.1	18.4	10.9	17.4	21.7	5.8	4.7
85 and over	100.0	7.5	10.9	1.4	18.8	11.6	17.8	20.9	3.8	7.3
Unknown	100.0	6.7	7.3	.7	12.3	8.4	18.3	22.3	6.4	17.5

Table 28.—Additions to Register per 100,000 Population by State: 1962–68

State	Additions per 100,000 population						
	1962	1963	1964	1965	1966	1967	1968
MRA total	16.3	15.6	16.5	15.8	15.3	15.1	17.2
Connecticut	11.0	12.7	13.5	11.8	14.0	14.8	12.2
Georgia	(1)	(1)	(1)	(1)	(2)	12.3	12.5
Kansas	19.7	18.0	17.9	16.7	16.7	16.9	14.7
Louisiana	14.8	12.7	23.2	11.9	10.5	17.2	15.4
Massachusetts	18.3	18.9	17.9	18.4	18.7	19.2	21.0
New Hampshire	21.7	20.7	19.3	19.8	21.2	20.4	14.9
New Jersey	11.7	9.0	8.7	10.2	9.2	6.0	16.8
New Mexico	(1)	(1)	(2)	17.6	[3]6.7	8.0	15.0
New York	(1)	(1)	(1)	(1)	(1)	(1)	(2)
North Carolina	22.0	23.0	25.6	25.6	23.3	23.5	25.8
Oregon	(1)	14.5	24.6	24.4	23.0	18.9	19.7
Rhode Island	11.3	13.1	10.8	10.5	8.8	14.7	15.9
South Dakota	(1)	(1)	(1)	(2)	17.1	10.6	12.9
Utah	(1)	(1)	(1)	15.2	14.8	15.2	14.4
Vermont	30.2	25.2	19.6	19.8	19.2	22.4	20.0
Virginia	(1)	(1)	9.1	11.9	14.2	14.0	15.6

[1] Not a member of MRA in this year.
[2] Not available.
[3] Register inactive from June through December.

Table 29.—Number of Persons in Register per 100,000 Population by State: December 31, 1962–68

State	Number in register per 100,000 population						
	1962	1963	1964	1965	1966	1967	1968
MRA total	161.2	150.7	150.2	149.4	146.7	146.4	153.8
Connecticut	120.7	123.2	115.7	115.1	118.2	120.7	119.0
Georgia	(1)	(1)	(1)	(1)	113.7	118.3	120.2
Kansas	138.9	142.4	145.2	145.2	145.0	132.9	129.0
Louisiana	221.8	166.1	179.3	169.3	168.9	172.2	173.7
Massachusetts	174.1	178.2	177.1	181.2	180.3	186.2	197.8
New Hampshire	171.2	175.2	165.7	154.4	155.0	158.6	159.6
New Jersey	102.8	103.3	103.1	109.2	105.7	106.6	115.8
New Mexico	(1)	(1)	285.0	257.0	252.7	255.6	255.5
New York	(1)	(1)	(1)	(1)	(1)	(1)	162.1
North Carolina	220.8	210.1	212.0	204.9	208.7	207.8	206.5
Oregon	(1)	112.7	115.9	120.3	126.2	130.1	133.3
Rhode Island	114.5	115.9	116.5	123.1	120.9	127.2	124.2
South Dakota	(1)	(1)	(1)	125.2	135.6	134.6	135.0
Utah	(1)	(1)	(1)	120.7	124.1	127.2	131.3
Vermont	188.4	165.4	168.9	167.3	169.1	171.2	169.5
Virginia	(1)	(1)	108.6	120.0	128.4	110.2	118.6

[1] Not a member of MRA in this year.

Table 30a–1.—MRA's Estimated Population in Thousands by Age and Color/Sex, Excluding the Population of New York State: 1968

(Details may not add to totals due to rounding)

Color/sex group	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	42,518	4,865	11,803	13,807	8,328	2,467	1,035	213
Male	20,910	2,471	5,987	6,773	4,040	1,121	438	80
Female	21,608	2,394	5,816	7,034	4,288	1,346	597	133
White	36,585	4,004	9,835	12,014	7,391	2,211	940	191
Male	18,034	2,040	5,004	5,929	3,593	1,003	394	71
Female	18,551	1,964	4,831	6,085	3,797	1,208	545	120
Nonwhite	5,933	861	1,968	1,793	937	256	95	22
Male	2,875	431	983	845	446	118	43	9
Female	3,058	431	985	949	491	138	52	13

Source: Bureau of the Census current population reports, series P–25, No. 437, January 16, 1970. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 30a–2.—MRA's Estimated Population in Thousands by Age and Color/Sex, Including the Population of New York State: 1968

[Details may not add to totals due to rounding]

Color/sex group	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	60,704	6,698	16,170	19,748	12,545	3,726	1,513	304
Male	29,712	3,402	8,182	9,608	6,068	1,698	641	113
Female	30,992	3,295	7,987	10,140	6,477	2,028	873	191
White	53,151	5,632	13,799	17,313	11,313	3,415	1,401	278
Male	26,077	2,870	7,003	8,475	5,482	1,555	590	102
Female	27,074	2,762	6,796	8,838	5,830	1,861	811	176
Nonwhite	7,553	1,066	2,371	2,435	1,233	311	113	25
Male	3,636	533	1,180	1,133	586	143	51	11
Female	3,917	533	1,191	1,302	647	168	62	15

Source: Bureau of the Census current population reports, series P–25, No. 437, January 16, 1970. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 30b.—MRA's Estimated Population in Thousands by Color/Sex and State: 1968

[Details may not add to totals due to rounding]

State	Color/sex group								
	MRA total			White			Nonwhite		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	60,704	29,712	30,992	53,151	26,077	27,074	7,553	3,636	3,917
Connecticut	2,961	1,453	1,508	2,831	1,389	1,441	130	64	66
Georgia	4,579	2,236	2,343	3,272	1,616	1,655	1,307	620	687
Kansas	2,291	1,137	1,154	2,186	1,085	1,101	105	53	53
Louisiana	3,710	1,814	1,896	2,519	1,242	1,277	1,191	572	619
Massachusetts	5,438	2,626	2,812	5,306	2,560	2,745	132	66	67
New Hampshire	703	345	358	700	344	356	3	2	1
New Jersey	7,070	3,463	3,607	6,455	3,167	3,288	615	297	318
New Mexico	994	501	493	915	462	453	79	39	40
New York	18,186	8,803	9,383	16,566	8,042	8,524	1,620	761	860
North Carolina	5,131	2,531	2,600	3,828	1,897	1,931	1,303	633	670
Oregon	2,004	997	1,007	1,962	976	987	42	21	20
Rhode Island	908	446	462	886	434	452	22	11	11
South Dakota	665	336	329	638	323	315	27	14	13
Utah	1,031	515	516	1,012	505	507	19	10	9
Vermont	429	211	218	428	211	218	1	0	0
Virginia	4,604	2,297	2,307	3,647	1,823	1,824	957	474	483

Source: Bureau of the Census current population reports, series P–25, No. 437, January 16, 1970. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 30c.—MRA's Estimated Population in Thousands by Age and State: 1968

[Details may not add to totals due to rounding]

State	Age group							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	60,704	6,698	16,170	19,748	12,545	3,726	1,513	304
Connecticut	2,961	325	747	982	624	190	77	16
Georgia	4,579	548	1,374	1,492	828	226	93	18
Kansas	2,291	259	614	712	454	157	78	17
Louisiana	3,710	482	1,124	1,154	675	184	76	16
Massachusetts	5,438	579	1,367	1,715	1,172	394	172	38
New Hampshire	703	77	186	215	147	50	23	6
New Jersey	7,070	748	1,751	2,374	1,543	449	171	33
New Mexico	994	142	314	334	150	37	14	3
New York	18,186	1,832	4,367	5,941	4,217	1,259	478	91
North Carolina	5,131	593	1,580	1,700	907	237	96	19
Oregon	2,004	210	555	607	424	137	60	11
Rhode Island	908	95	230	295	194	63	26	5
South Dakota	665	81	193	193	128	46	20	4
Utah	1,031	146	329	322	165	46	20	4
Vermont	429	48	122	125	86	30	15	4
Virginia	4,604	532	1,317	1,588	832	222	94	19

Source: Bureau of the Census current population reports, series P–25, No. 437, January 16, 1970. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

☆ U.S. GOVERNMENT PRINTING OFFICE. 1971 O—422–411

Jacobus tenBroek Library
103274

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE • PUBLIC HEALTH SERVICE • NATIONAL INSTITUTE OF HEALTH